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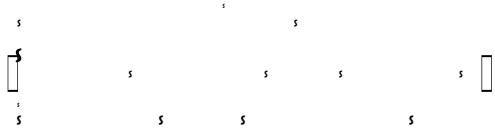

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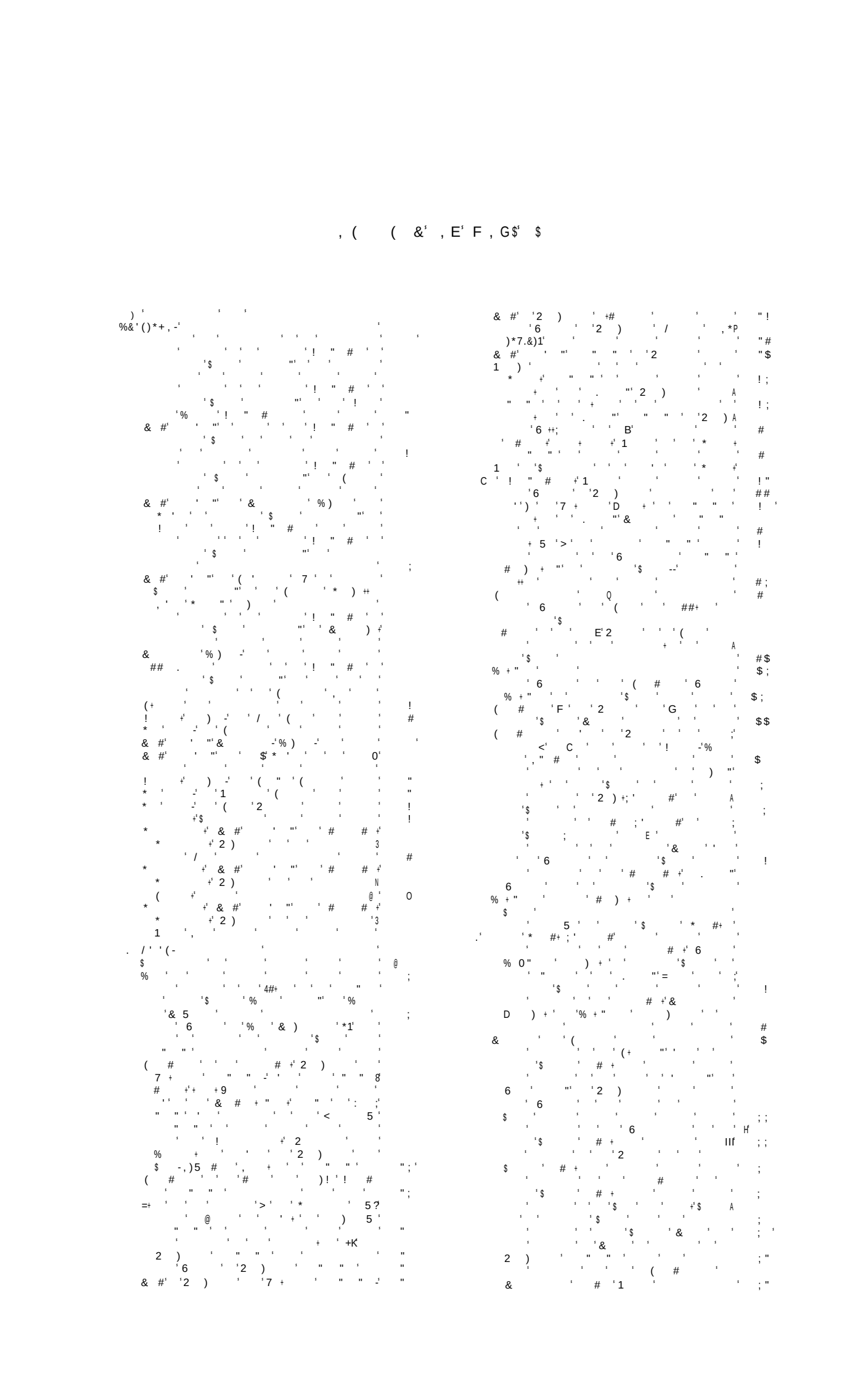

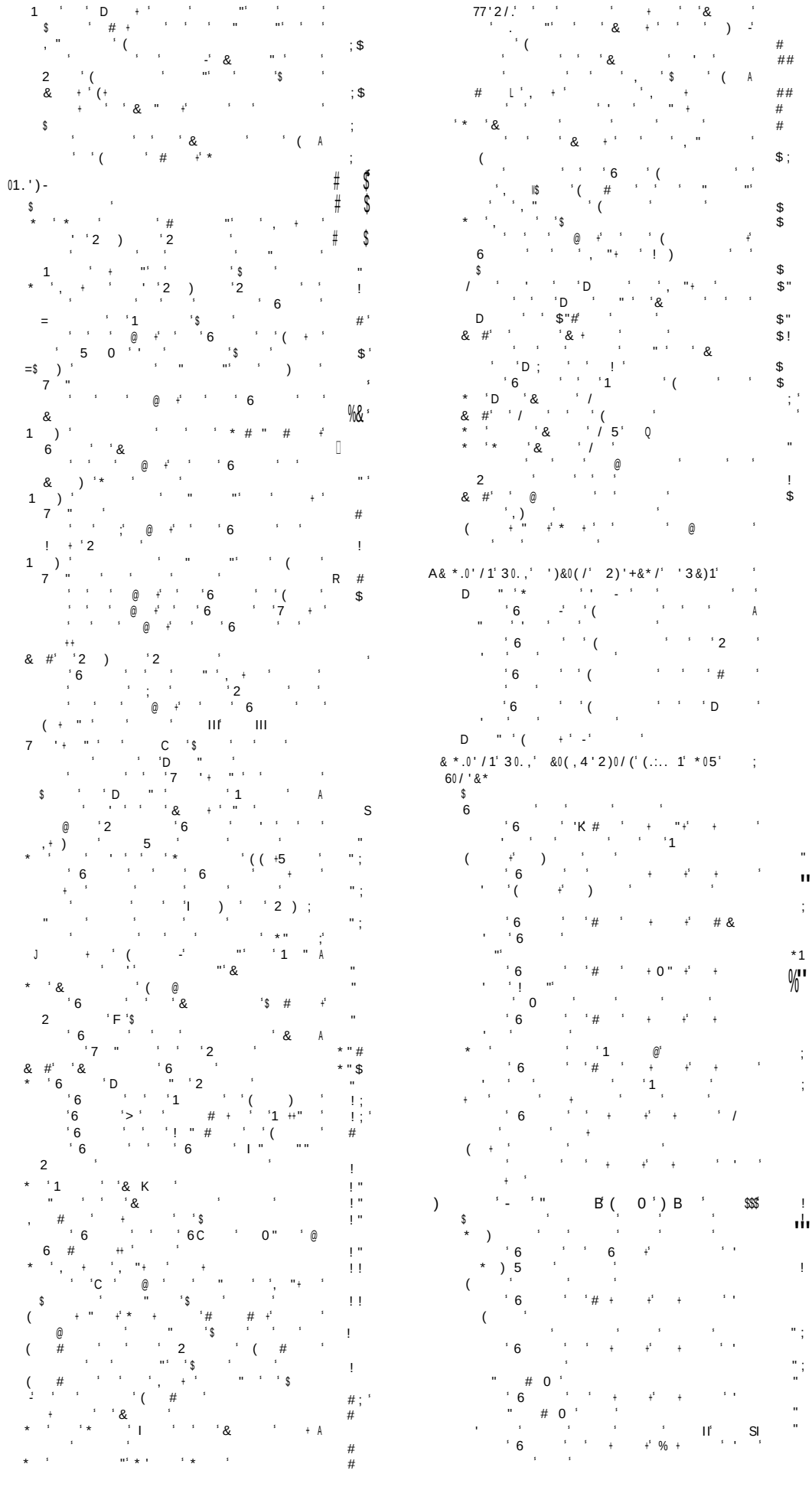

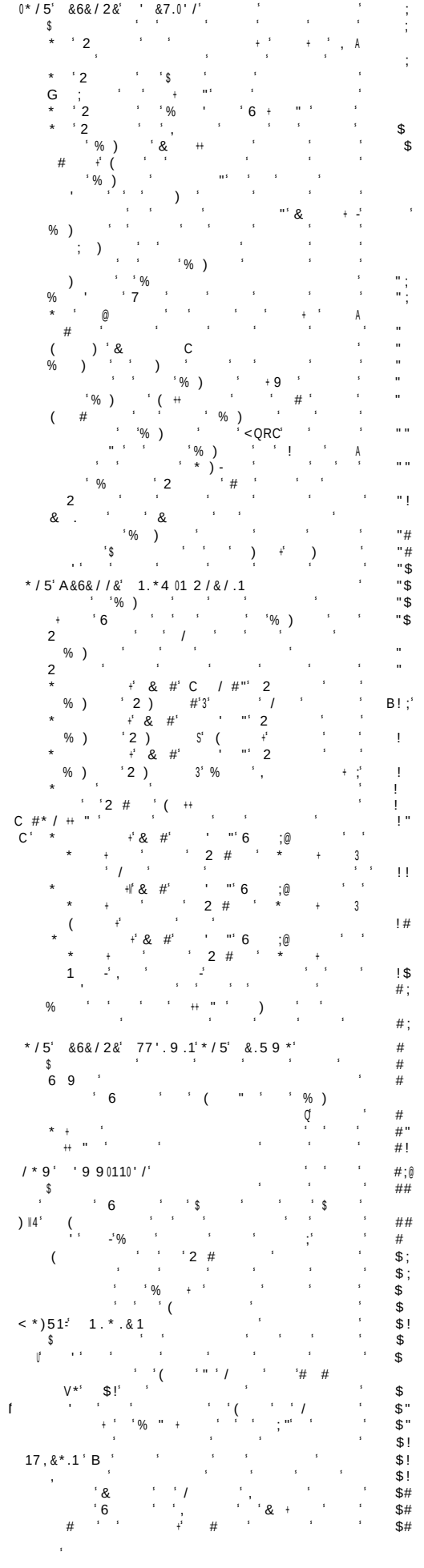

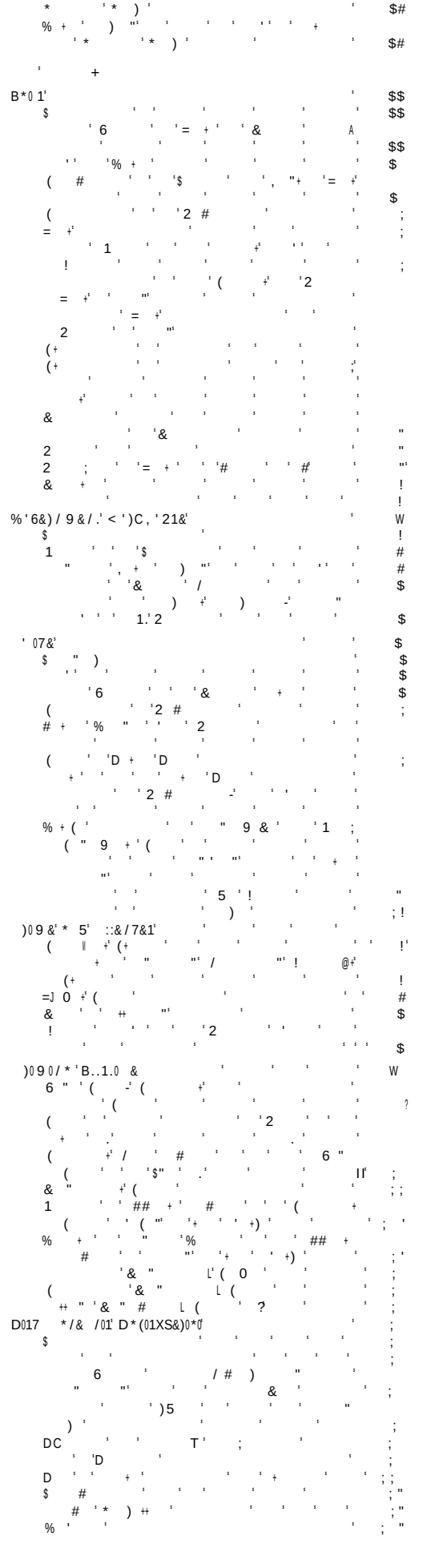

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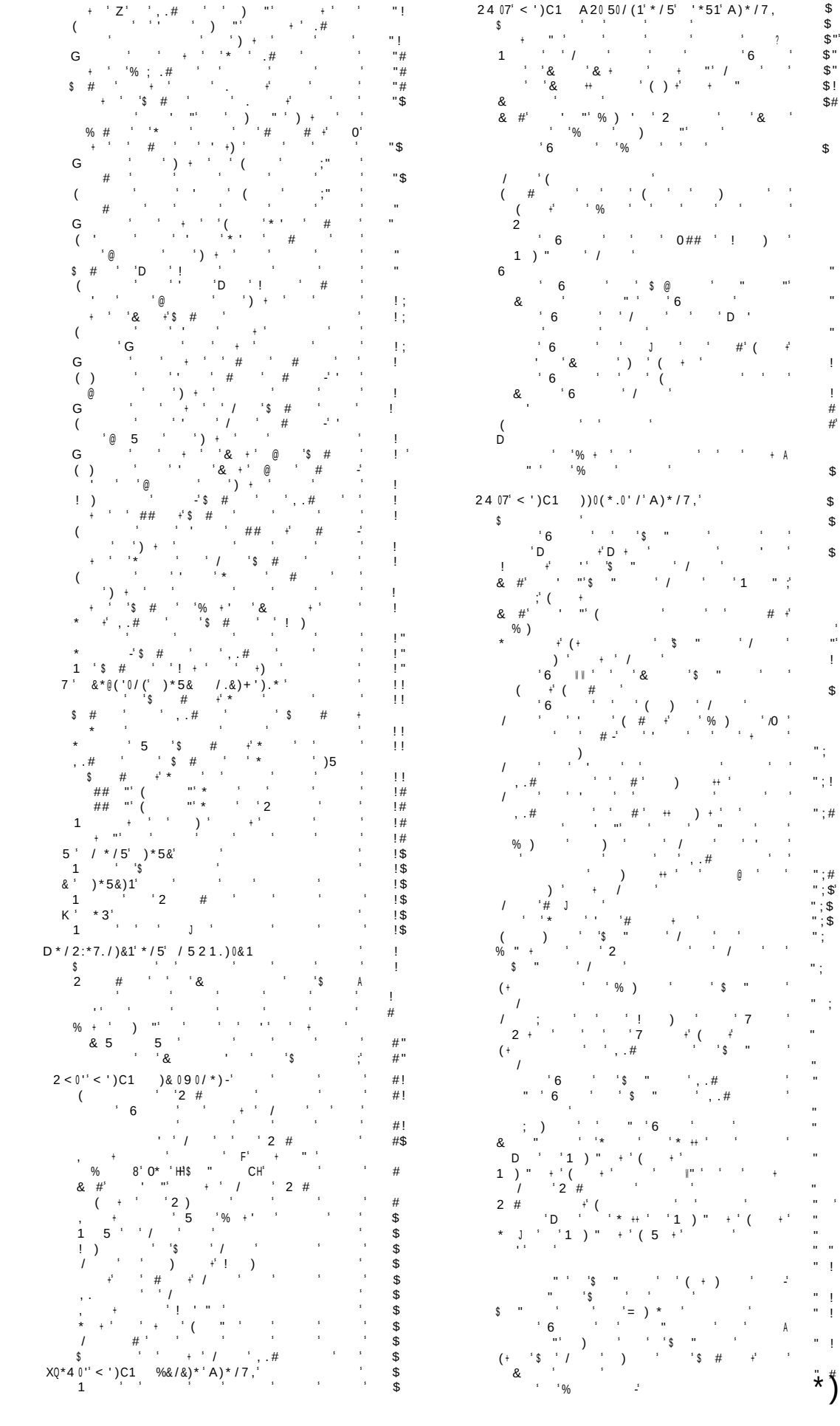

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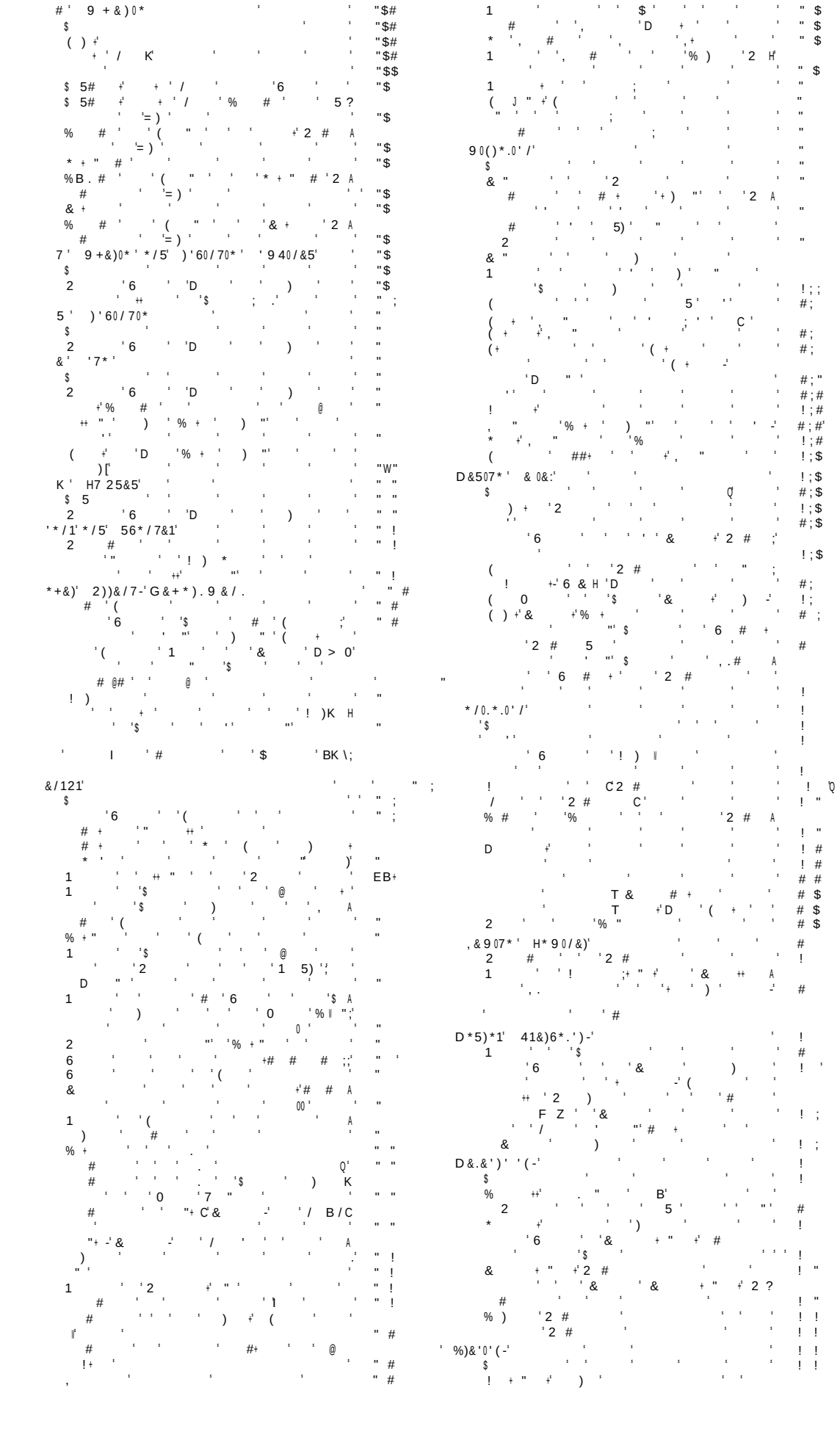

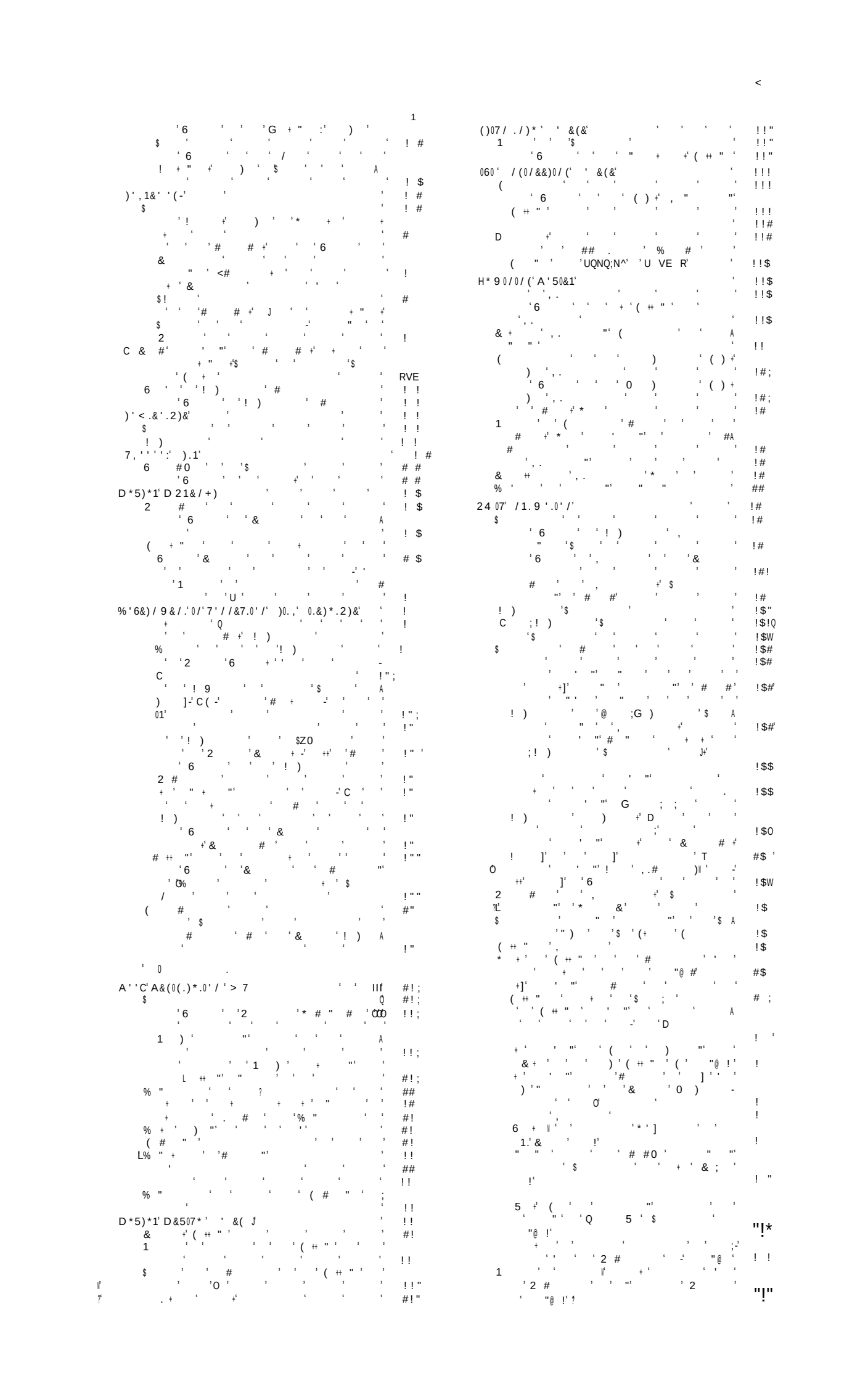

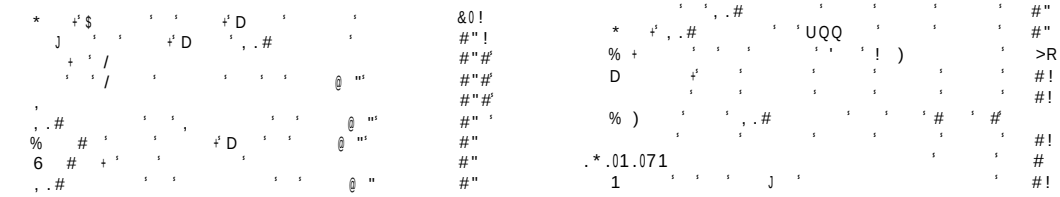

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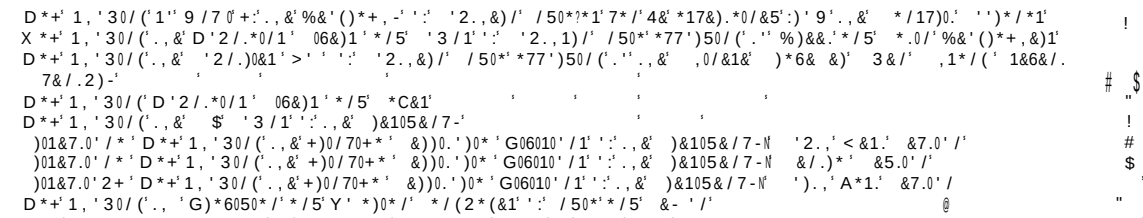

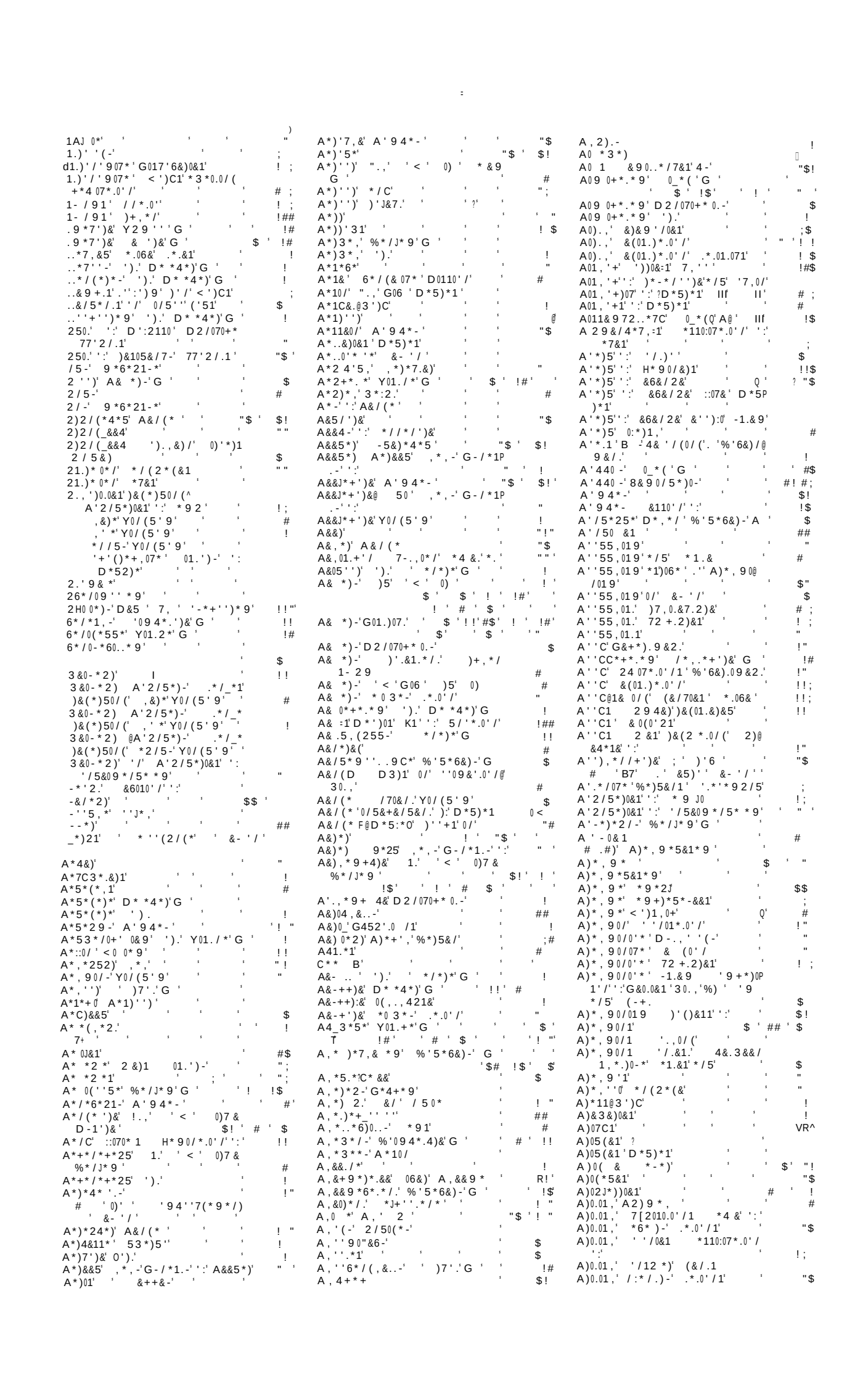

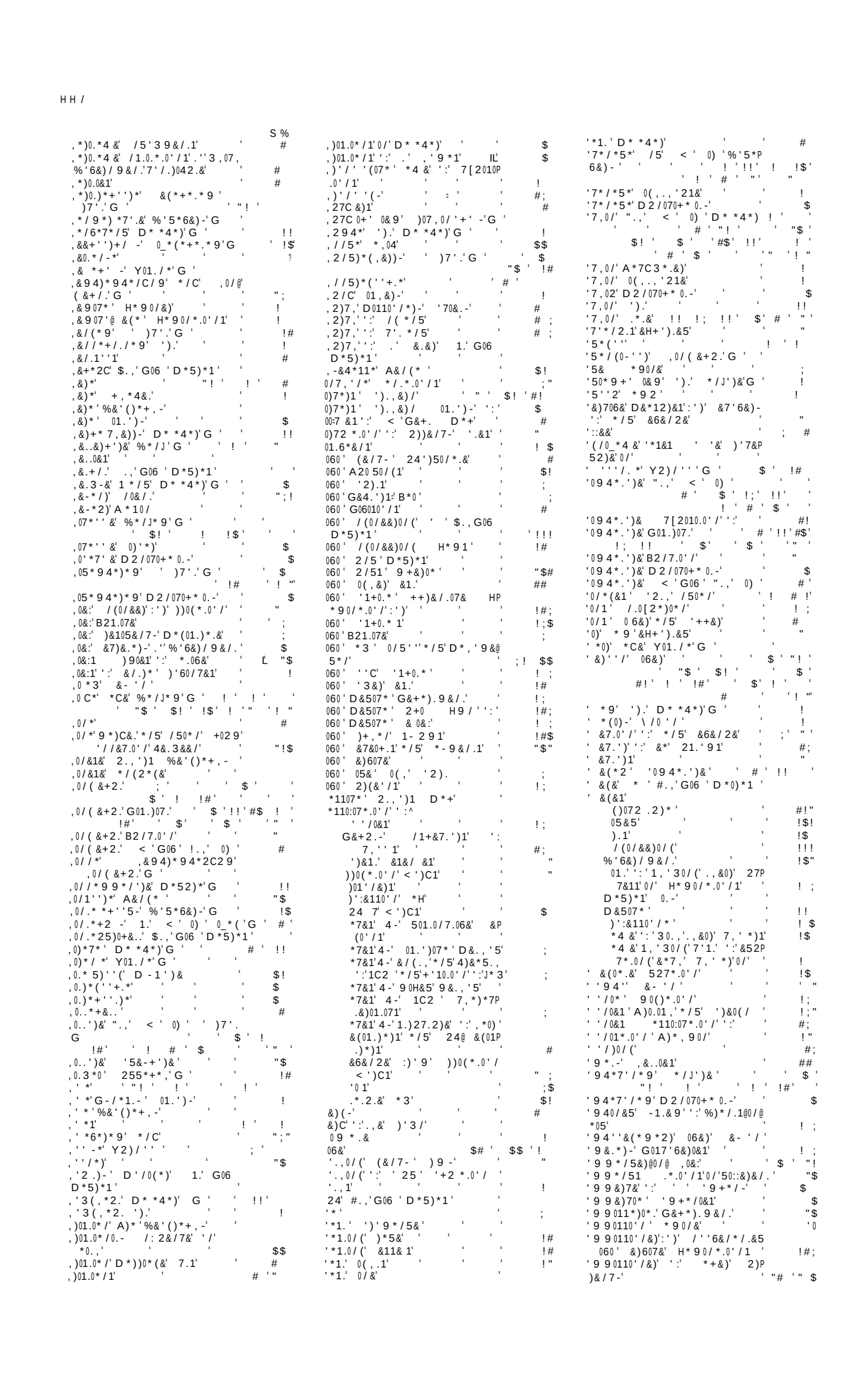

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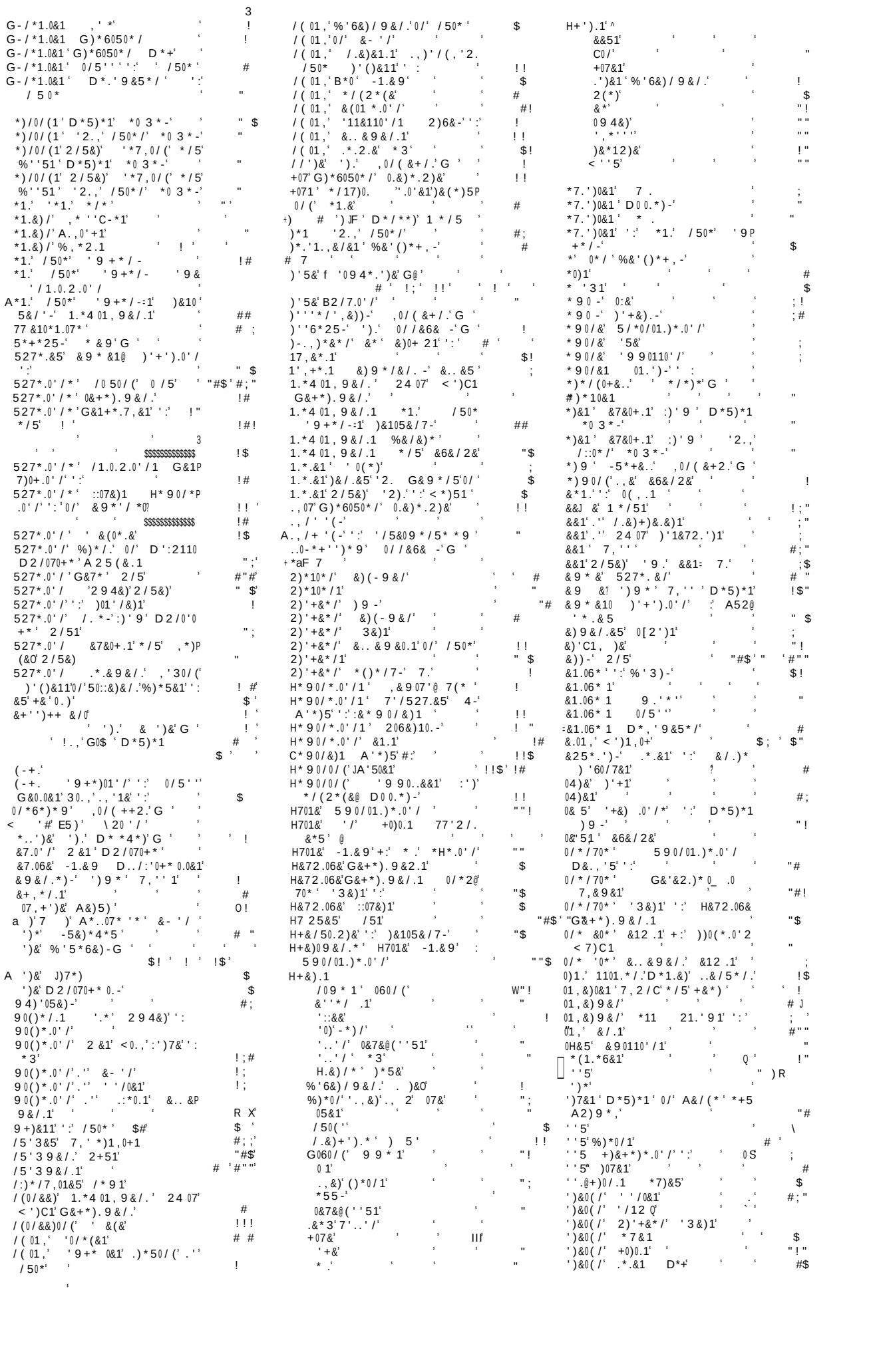

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B*0 1'0/' D*5)*1')&105&/7-' $$
B'0/.' .'7C' '9+*/0&1
A&+)01.)*.0'/' : $
Y&)* *
*/5' &6&/2&'
/(2(&1'G)*6050*/' "
3'/5' *3' '2).1' #!
*3')&(*)50/(')91' */5'
992/0.0'/ □□
04)*)-' ':')0&/.*' D*/2P
17)0+.1' !"
0.&)*.2)&'G)*6050*/' !#
'7*' 2/5'A'*)51' #
D*5)*1' */7,')*(& /[20P
)0&1')&(*)50/(' ' "
D*5)*1')9- +&)*.0'/1'
0/'.,&':0& 5''.' "!
D*5)*1' ')&1.)-' ' !
D*5)*1'%'6&)/9&/.')&11' # "
D*5)*1' *)4'2)' <')C1 '
''/1.9'.0'/'' ' !
D*5)*1'))0(*.0'/' */5'
/' '9+*/-@ $
D*5)*1'D2/070+*0.-'
D*5)*1' 41&)6*.')-@ !
D*5)*1' '07&' $
D*52)*' □
D*,'9&5*/' 9+&)0*'G-P
/*1.0&1'':' /50*' " "
D*,'9&5*/' Y0/(5'91'
24')50/*.&' "#
D* *4*)' 17,&*.1' $#
D* *4*)' ''*1. '0.07*
& *.0'/1'30.,' !
D*)*6*')04&' "
D*)0/&'G&+*).9&/.' !#
D*))0*(&' 7.1 /50*/'
,)01.0*/ #
D&*12)&1':')')&+)'5270/('
&)/*72*)' <')51' 0/'
'9*/' &..&)1' !""
D&507*'G&+*).9&/.1' !;$
D&.&')' '(07*' +&)*.0'/1' !
D0110'/1' ' # ''#'
D':2110'D2/070+*0.0&1' ' !'
D2/070+*0.-'D*5)*1' '
D21&291' ! $
D-1')& '0.07*' &*.0'/1'
30.,
0_*9 '0.07*' &*.0'/1'
30.,
').,&)/' 0)''*)1 $
41&)6*.')-' !
5' '&(&' */5'A'*)5''':
H*90/&)1' !!$
+&)*.0'/1'0/'.,&' 0& 5':'
D*5)*1')9-' "!
+029 '//&7.0'/' 4&P
.3&&/' /50*/@()'3/' */5'
,0/*'D*)C&.' "!$
+029'D*/*(&9&/.' "!
)0&/.*' D*/217)0+.1
04)*)-' !"
* *6*1'
*+&)' 2))&/7-' ' " #
*294&/ *1* <')C1'*.' "
'07&' ' $
'0(*)1'':' 2)+*/,2 -' ' !
'0.07*' &*.0'/1' 30.,
/5*9*/1'*/5' 0''4*)1' ;
'0.07*' &*.0'/1' 30.,'
A2/(*/*+2 -' ' "
'0.07*' &*.0'/1' 30.,
A2)9*,' #
'0.07*' &*.0'/1' 30.,
)/.07' *90-' "
'Y.0'*' &*.0'/1' 30.,
&/.)*')'60/7&1' !
'0.07*' &*.0'/1 30.,
&-''/'
'0.07*' &*.0'/1' 30.,'
'7,0/'
'0.07*' &*.0'/1' 30.,'
''')(' !
'0.07* &*.0'/1' 30.,
D**4*)' ''*1.' ' !
+'0.07*' &*.0'/1' 30.,
D-1')&'

01.')-' ':^
'0.07*' &*.0'/1' 30.,'
0_*9
'0.07*' &*.0'/1' 30.,'
''5'''..*,' ";
'0.07*' &*.0'/1' 30.,'
.)*0.1' &..&/0&/.1'
'0.07*' &*.0'/1' 30.,'
2/5'')' "
'0.07*' &*.0'/1' 30.,'
*/J')&' *J !;
'0.07*' &*.0'/1' 30.,'
)*6*/'')& !
')./(/&1&' '//&7.0'/'30.,'
)&105&/7-'
'1.'G01.)07.' "#
'1.' 9+&)0*' "#;
)&11&1'GJ1.)J7.' # !
)&11'D*5)*1'%'6&)/9&/.' # "
)0/70+*0.-''':'B & ')&' !;
)'J&7.1':')' W,0+' */*'
4&.3&&/' D*5)*1' */5'
&-'/ !
)'.&1.*/.'D0110'/1' #
2407' <')C1 #!
2407' <')C1'))0(*.0'/'
A)*/7, $
*7&'D'6&9&/.1' '
0 3-1' " ;
&550&1':' 4,5* &&5' !;
&(01.)*.0'/'':' 112)*/7&1'
&(01.)*.0'/'':'B'0/.' .'7C'
'9+*/0&1 $
&0(0'21' /5'39&/.1'
''//&7.0'/' ':' %'6&)/P
9&/.'30.,' #
&6&/2&' 77'2/.1
,*/(&1'0+' #
&6&/2&'A'*)5' "$
&6&/2&'G0.D'. 7[20P
10.0'/'':' #!
&6&/2&'52&'.'')0(*.0'/'
))*/(&*0& .1':')' *17&)P
.*0/0/(' ' " !
&6&/2&' /5'
&6&/2&' &..&9&/.' G&P
+*).9&/.@'
'*51 $
'9*/' &.. D@ D&*12)&'
:')')&+)'5/ 0JJ(' &)/*P
72*)'3')51'0/' !""
.' 590/01.).0'/' " $
/0..0'/' !
7,'''':').1' ! #
&*' 21.'91 !
&7)&.*)0*.'G&+*).9&/.1'
&..&9&/.'+ +*).9&/.'
,0+' */*'4 .<& /'D*5)*1'
*/5' &-'/)'J&7.1':')' !
'2.,' /50*/' '0/*(&1' # !
;!
.)*0.1' &..&9&/.1
'0.07*'A&*.*''/1'30.,'
24')50/*.&' D*,'9&5*/
Y0/(5'91' "#
2/5'') '0.07*' &*P
.0'/1'<0.,' "
2)6&-'%&' ' '*' ! #
2)6&-' +&)*.0'/1' #
-5*+&..' *):0' $
*/J')&' *J '0.07*' &P
*.0'/1'30.,' !;
)*6*/'')& '0.07*' &P
*.0'/1'&5., !
-+'()*+,-L)E<50*/' !!;
'C*9020*.09:1' !#
++&)' %'5*)-' *60P
(*.0'/'<')C1
&/(-' $$$$$$$$$$$$
&)/*72*)' <')51 D&*P
12)&1':')&+) 5..'9('0/'
'9*/'A&..&)1' ' !""
0J0*/'/((&)'G-/*1.-' ' !
0_*(*+*.*9' (&/7-' ' #
<')C1'*.' *+94&/' *11' ' "
<')C' 5'/&' 4-'%&' '(07*
2)6&-' ' ! $
<-2*25' 1'4&*. ' $#
<-/*25'0%' 5@)09/0/(' ' ;
5-*1'':'G& *(0&))-' ' "A
'&-*)' ' ' ! ' #

'50/(1'50)&7.'2/5&)'%'6&)/9&/.' 01'
'50/(1 -'.3*))- ' 0
'05*-1'*.')&105&/7-' '3/ ' $'
'05*-1'0/' +@''2/.0-' ::07&1'
'- //50(*- ' '
'9&' '/1.0.2.0'/' ':' *1.
/50*' '9+*/-' ' $
'9&)' ' '
'/&-' @' ' (0
'/)&' A'94*-' ' ' "$
'/')1' H*9':')' 0600*/1' ' !!
''(<-' 06&)' ' "$' $! '!"
''9*-''/' ' "
''.*+1*/*' '39*9-' ' "
:' 60/,*5(* -' A& *)-'G ' $' !#
'+&' 1*/5' 0(,.,'21&' %'5*@
6&)-'G ' ' !
')/'D*/2:*7.2)&1' ' #
').0'/.2)&' ' '
').072.2)*'%*)5&/1' .,'G06
D*5)*1' ' '
'15)''(').' ' */*)*'G ' !
'1+&..' A& *)-'G ' $' ! !#
'1+0.*' ++)&/.07&1 H*90P
/*.0'/'':' ' !#;
'1+0.*' 1101.*/.1' ' !;
'1+0.*' ')+1 ' #;
'1+0.*' '/51' ' ' "#$
'1+0.*1' 060 '!;
'1+0.*1' '7*' //5' ' #"
'1+0.*1'D2/070+*' ' "
'.& ' *++&)' '21&' .,'G06
D*5)*1' '
'21&1' ' ;;
' &@.*H'0/'D2/070+*0.0&1' ' "
'-1**A* */*1' ' ";
29*/' *7)0:07&1' ' $
29+-' A& *)-'G ' ' " '!"
2)+*/,2 -' A& *)-'G ' $' !#
2)+*/,2 - '0(*)1'':' ' !
2H&-:1' *110:07*.0'/'':' *7&1'
2_''')' 77'2/.1' ' #
2_')' ,&)01.*5*)' ' ' !
<&/' ,1*2('%&'()*+,-' '
-5& *4*5' !;' $! '
-5&)*4*5' '/.0/(&/. ' ' "!
-5&)*4*5' 241050*)-' ')7&' ;' ' "$
-5&)' -' ' ;'!

4/'A*.*.*')*40*/' 2.,')' '
4/' '?:C*')*40*/' 2.,')' ' ;
4/' Y,''')5*54*')*40*/
2.,')' ' ;
7&' '21&' .,'G06'D*5)*1'
',*+')&'%*/J*9'G ' !$
5'1' ' ;
CC*0)-' D-1')&' ' ' "$
CC/*9' ' ' ' !"
*CC0-**9' ' ' ' !"
9*/5' ,*,-'G-/*1.-''':A&)*)' "
9900()*/.1' ' ' ' !;#
9+&)0*''*/5')'60/70*' 2/51
7'940/&5' ' ' ' "$
9+&)0*' 060' 2/51' ' ' "$#
9+&)0*' 060' &7&0+.1' */5'
*-9&/.1' ' ' ' "$"
9+&)0*' 060' *H*.0'/ /P
705&/7&':' ' ' ' "$!
9+&)0*' '1.' ' ' ' "#;
9+&)0*' 2407' <')C1' ' "$#
9+&)0*' 2407' <')C1' 77'2/.
&*51' ' ' ' "$
9+&)0*' <&0(,.1' ' # $
9+&)0*' <')C1' ' $
9+&)0*' <')C1 0/*/70*
'10.0'/'':' ' "
9+&9&/.1' ()072.2)*' ' $
9+').1^
++*)&' ' ' ' !
'..'/' 0&7&@(''51' ' "$
'..'/' 301.' ' ' "
H.&)/*')*5&' ' ' "#
''5'()*0/1' ' ' "
%'6&)/9&/.' .')&1' ' !
/.&)+').*')*5j ' !!
D*.' 0[2')1' ' ' !
D&.*1' ' ' !;
0&7&@(''51 '
0 3-'D*.&)0* 1 ' ' !
A*. ' ' ' ""
+0)0.1' ' !

0.&)*)-' /1.0.2.0'/1' 0/' 7'))&P
1+'/5&/7&' 30.,'%'6&)/9&/.' !"
0.&)*)-' '70&.-=1' B'2)/*' !"
0.&)*)-' '70&.-=1' 04)*)-' !"
0.&)*.2)& G)*6050*/' !" ' !#
0.&)*.2)& %'6&)/9&/.' 0/
7'//&7.0'/'30.,' !
06&@1.'7C' !
060/(' /09*1 H+').1''.:' "!
060/(' /09*1 *7)0:07&'':' ;
'*/1'*/5' 56*/7&1' " !
'*/1' 24 07' "
'7*'A'50&1 '/1.0.2.0'/'':' >V^
'7*' 2/5'A'*)51 01.')-'':' # '
'7*' 2/5' 0)7 &1 */0.*)-
.*.01.071' ! $
'7*' 2/5' H+&/50.2)&' #"! #"
'7*' 2/5' '1+0.* 1 #"
'7*' 2/5' 7,'' 1' '!$!'#"$
'7*' 2/51' "##'"
'7*' 2/51 527*.0'/' #"#
'7*' %)*/.1'.'' 527*.0'/*
/1.0.2.0'/1 !$
'7* 0.0&1' :' D*5)*1 77'2/.
':' #
'7* 0.0&1' 3,&)&' */(2*(&1
:'2/5' 山' '
''*' &6&/2&1 "##
'7*' &:@%'6&)/9&/.' '9P
90..&&'' #"
'7*' &:@%'6&)/9&/.' '9P
90..&&=1' &+'). H.)*7.1
:)' 9 ' "
'7*'<')C1' $
''C' '1+0.* 1 '!;'!;
'5-' G-+*1.-'':' "
'/5'/' .2+*/- '-*(&1'.'
/50*' #;
'/5'/'D0110''/*)-' '70&.-' #
'/(0.25&' !
'/(' */C' '
'11&1'':' X&6&/2&' 4-' A&901@
10'+1'B " $
'.21'G06010'/'':' /50*' '
'2)0-*' A&/(*' ! "
'3' *1.&' #!
'3&)' '&)''/' /0&/.' ";W
'3&)')09*)-' H*90/*.0'/' ! W
'3&)' .*/5*)5'AH*+)0/ .0'/ !!
244*-1' $ '" W
294*250 1' # '# ' W
29+'%)*/.1' !$!
2/*.07' 1-291' ! ;
//(,&)C4*/*')0+ 07*/&' #
2/C+' &-'/' ' ! ' "! ' @
2.',./&&' $
-)07'BJ)*6050*/' 0.&)*.2)&' W!K

D**4*)' ' ' ' '
#' D*,*()*29*' &-P
'/' ' ' ' '
D*5*C*)*' /*:0.*+')&'G ' ' $
D*5*C10)*' /*+.*+')&'+ ' $ ' !#
D*5*/*+2 -' 255*+*,' ' ' '
$ ' ! !#' ' ! '
D*5*+' *9' %'5*6&)-' ' ' $
D*5&:+*2C' ')7'.'G ' ' !#
D*5,3*',*^.-* ' ' $
D*5,3*',*)-* @ &01,/*60.&
&7.'.:' ' $#
D*5,<*',*))0&1' ? ' ;
0.:*5,3*' &01,/*6*1 D*)C1''':' !
5*5,3*1' '
D*5)*2.*'*9' B,9(&+2.'G ' $ ' !#

D*5)*1'!.,' <' 0)' ' ' $ '
$!' ' $ 'W!'#$' ! ' !#
' $' ' # ' $ ' ' W
D*5)*1' /7,')*(&' ' "
J0*5)*1')9-' '' ' "'
D*5)*1'*+.2)&'4-')&/7,' ' "'$
D*5)*1'G&17)0+.0'/' '
D*5)*1' '2/5*.0'/''':' ' !$
D*5)*1' *)4'2)' ' ' ! !
D*5)*1'))0(*.0'/' */5' */*
'9+*/-' ' ' $
D*5)*1'B'2)/*'':' 0.&)*.2)&
*/5' 70&/7&' ' !"
D*5)*1'0(,.,'21&' ' !
D*5)*1'0.&)*)-' '70&.-' ' !"

D*5)*1'D&507*' ' &(&' ' !!
D*5)*1'D2/070+*0.-' '
D*5)*1'D21&29' ' ' ! $
D*5)*1' 41&)6*.')-' ' !
D*5)*1' 0&)' ' !
D*5)*1')&105&/7-'A'2/5*)0&1'
D*5)*1' *0 3*-' ' ' " #
D*5)*1' *0 3*-' .*.0'/1' ' "
D*5)*1 &..&9&/.'*.' ' #
D*50@*1 0&(&'':' ' $" ' $
D*5)*1' 2)6&- ' W
D*50@*1' -1.&9'':' 527*.0'/
A&:1' ' ' !##
D*5)*1' /06&)10.-' '!$'!
D*5)*1' &)/*72*)'*/5' 7,''
A''C' 2401,0/(' '70&.-' '!" !!
D*5)*1'<*.&)@12++ - ' '";"
D*5)011*@0@ 2_*9' '!$"'!$
D*52)*' #.,' <' 0)' ' '
' ' #'"!' ;' '
$!' $' !; !!' ' !'
#' $ '# "
D*52)*' ' &(&' ' ' ;
D*52)*'G01.)07.' #'!!' #$' !;' !!'
' $' ' $' '"
D*52)*'D2/070+*0.- ' $
D*52)*' *07C' 2 &' ' ;
D*5)*' *0'C1' ' ' !"
D*52)* 772+*.0'/'4-'A)0.01,'
D*52)*' '<'G06010'/' ' #
D*52)*' * 3*-' .*.0'/' ' "
D*52)* '+')()*+,07*' 01.')-
':' '
D*5-*)J''2' &/10'/1 ' "
D*(*5,*,'? ' ' #
D*(07*' 0.&1 ' ;
D*(01.&)0*' '2).1' ' ;;
D*(01.&)0* D017& */&'21' ' ;
D*(01.)*.&1' ' !" ;;
D*(0_,*5-' & *-'*.')06&..')&' "'
D*,*4* +')&' ' ' ' ;
D*,*44*)*.''%&'()*+,-' '
D*,*44*)*.' 01.')-' ' <
D*4*()*2+0*' &- '/' ' '
D*,*/255-' 0.&)' ! ' "$' $!' ! "'
D*,*)*J*,''':'B,*6*/'')&' Q' ' !
D*,*)*1,:)*' D*,)*..*
'2/.)-' ' #' ;' J' "$'
D*,*' ,06*)*2.)-' ' "
D*,*2 -*' 9* */1-* ' 1
D*,*6*/1''%& ()*+,-' '
D*,*3*/1&' @ ' $
D*,*30*(/2(*' 06&)' '
D*,&'D**4*)'G ' ' $!' '#$' $
D*,& 5)*' ' ' '
D*,5/5)*'D'0J/.*021' *1.&)/
%,*2.1' ' !J
D*,0 ,*7*1' ' !?
D*,' ' ' !
D*,9''5' ,*,A*,90/-' ' ! S
D*,'+0&5*4*5' @<')'6' ' "$
D*,'9&5' -' ' ' $0
D*,'9&5* ')7,0.&7.2)&' ' ! ;
B*, J/&5*/' 060' +3' ' $$
D*,' &5*/' +0/*(1 ! '# !
*, ,)&5*2' '/[2&1.' ' ' "
D*,'.2&5*,' 527*.0'/' ' ! $
D*,'9&5*/' &1.06*1' ' ' #
B0*,' /&5*/').1' ' ' !
D*,'9&5*/' 0J)*,')*' ' #
D*,'9&5*/' 2 +&)0*'G-/*1.0&1'
':' /50*' ' ' ' "
D*,'9&5*/'0/6*10''/1'':' /50*' "O'
D*,'9&5*/' Y0/(5'91' 24')P
50/*.&' ' ' '
D*,'9&5*/'D*5)011* ' !
D*,'9&5*/')'+&)' *9&1' ' ;"
D*,''/0&5*..' :'+&)' *9&1
)5&)'' L T ' ' ;#
D*,'9&5*/' 2, 0'' 04)*)-' ' !"W
D*,'9&5*/' 7,''1' ' ' !$"
D*,'9&5*/' &7.1' ' "
D*,'9&5*/' 2)/*9&1' ' ;!
D*,'9&5*/')04*' *9&1' ' ;#
D*,'9&5*/')04&1' ' ' $
D*,'9&5*/1' ' ' "
D*4'9&5*,1@ *1.&'*9''/(' ' $;
D*,'9&5*/1 '.,0/(' '
D*,'9&5*/1'0/'.,&' *)/*.07' '
D*,'9&5*/1 A&0 0?== a?' G0 0S
10''/1' ' ' ' '

D*,'9&5' ,*, ' ' "!
D*,'9&5' h''12: &/.&)' ':'
D*52)*'*/5' 0//&6&-' '
D*,)*..*'A)*,90/1' ' ##
D*,)*..*' '2/.)-' '
D*,)*..*' '3&) 77'2/.':' ' ##
D*,)*..*1' ' ' ##' #
D*,)*..*1'' '/7*/-' ' ;
D*,)*..*1 G&:&*.'': ' !
D*,)*..*1 /6*10'/''':'D*52)*
4-' '
D*,-' 06&)'A'94*-' ' # ' $!
D*0/.&/*/7&' ':'))0(*.0'/
<')C1' ' ' ' ' "
6 < '0)' 'Y01./*' ' ' '
D1C)-& ' $
D**4*) 7[2010.0''/'':' ' ##
D**4*)' ,)01.0*/1' ' $
D**4*)' '*1. ' #
D**4*)' '*1. 01.')-' ':
'0.07**' &*.0'/1'30.,' ' !
D**4*)'G01.)07.' ' $' #' $
!!'#$!;' !!' ' $'
' $' '"
D**4*)' 17,&*.1' ' $#
D**77*' ' ' ' '
D**'''.*'%&'()*+,-'
D**7''.*'D**4*)' ;' '
$.7 ' &')&' '
+' '0''!+' &-'/' '
D**+'')*9'D**4*)'G ' ' !;
D**1*)' ' ' ' !
D**-**9' ' !;
D**-**9' 0.&)*.2)& ' !
D**-**9' -+'()*+,-' ' !!;
D**-*9'<'%,*2.1' ' ' ' !
D**-*) ' ' @ !
D*0506&'1*/51' ' ' #'"!'
$'!!'#$' !;' !!' '
$' ' #' $' '" '
D*0506&'*/(2*(&' ' ' !
D**0*,1'%*/J*9'G ' !!
D**0C,*2*1' ' !
D**0C,*/*1 *3'':'277&110'/
.'' ' !
0*+&' ').' ' */*)*'G ' ' !
D*.'0[2')'9+').1 ' !A
D*3*,' ' ' ' "$
D*<**' -*' 06&)' &-'/'
D*9,**9'%,02(&+2.'G ' '
D*/**) %2.:'':' ' ';' #
D*2**)'1*/5' ' ' ' #
D*/*')&'D*52)*'G '
D*/*/.'55-'D**4*)'G ' ' !;'
D*/:.+*2)*-')0&40/'+'-'G ' !#
D*/(**1' ' #
D*/(*')&' "..' '<' 0)'
/)*' ' ' '? $' '
#' '!' ' "$' $#'
W; !# !W' #'
;' ;' '"
D*/(*')&'0(,.,'21&' ' !
D*/(*')&'D2/070+*0.-' ' $
D*/0'*&' *77*506&1'*/5'D*P
506&1' ? ' ' ;
D*/0-*2',-' Y//&6&-'G ' ' ;
D*/0-*2',-'B2/7.0'/ ' "
D*/J/*.*' ' $
D*/ &)1'*/5' 21.'91 ' $
D*//&)1':' +&70*')04&1' ' ;
D*2.*+*9' ').'D*52)*'G ' ' !
D*/. ..&' &-'/' '
D*/2*1'501.)07.' ' ' ?!;
D*/2:*7.2)&'':' *.' ' "";
D*/2:*7.2)&1' ' ' ' !
D*/2:*7.2)&1'B*0' '
D*/217)0+.1' 04)*)-' %'6&)/P
9&/.' ' !"

" B' $$+' $$$ N<?
) ' '! ' $$$ 0 CNP
*.7,9&/.')& 1 '
0' '$ $$$ $$$ I;;
1107'"@ .,')1' ' '
% ' $$$$$$$$$$' ;NH>;NI
+)*6050*/' ?+C*4&.' .' 0
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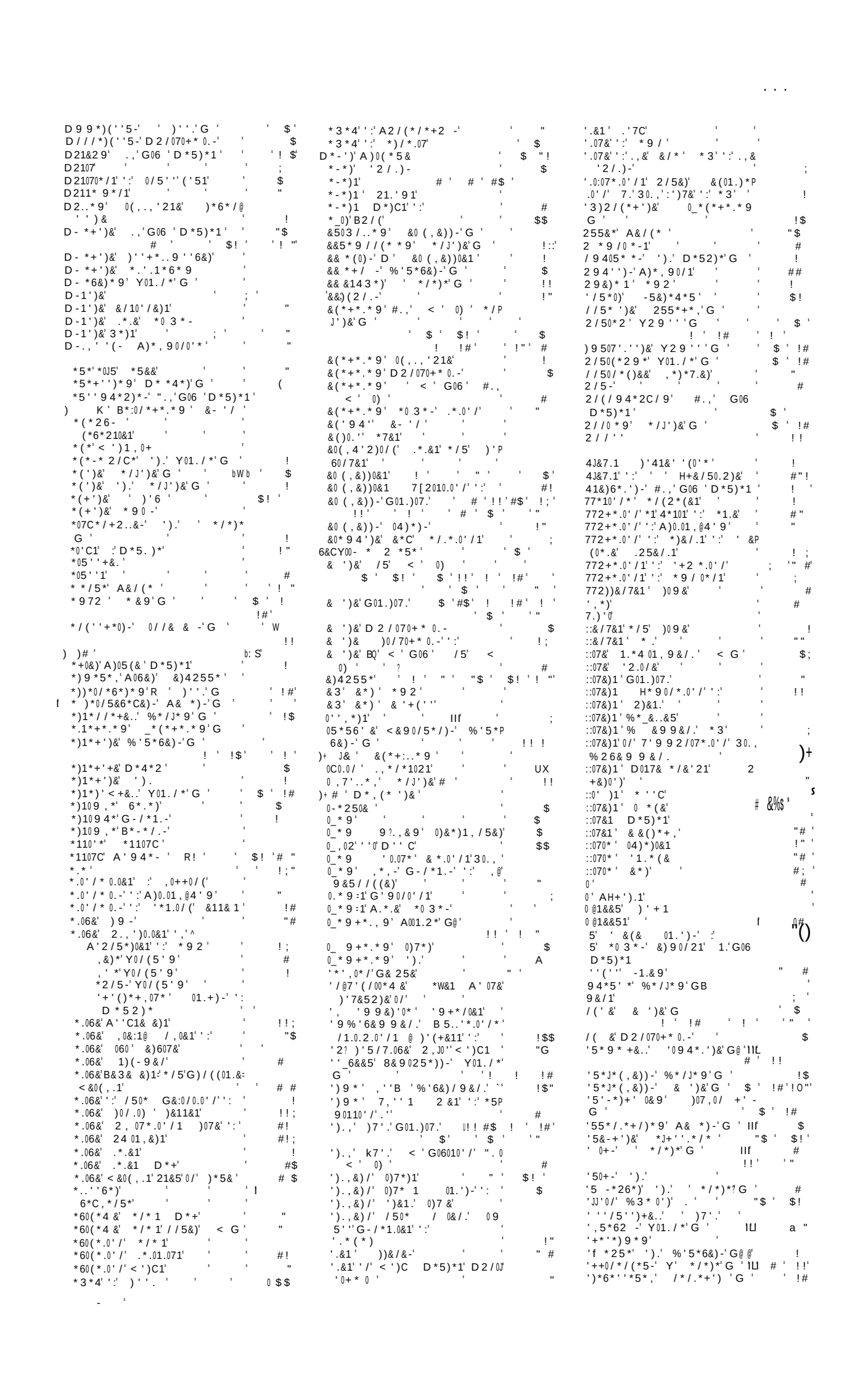

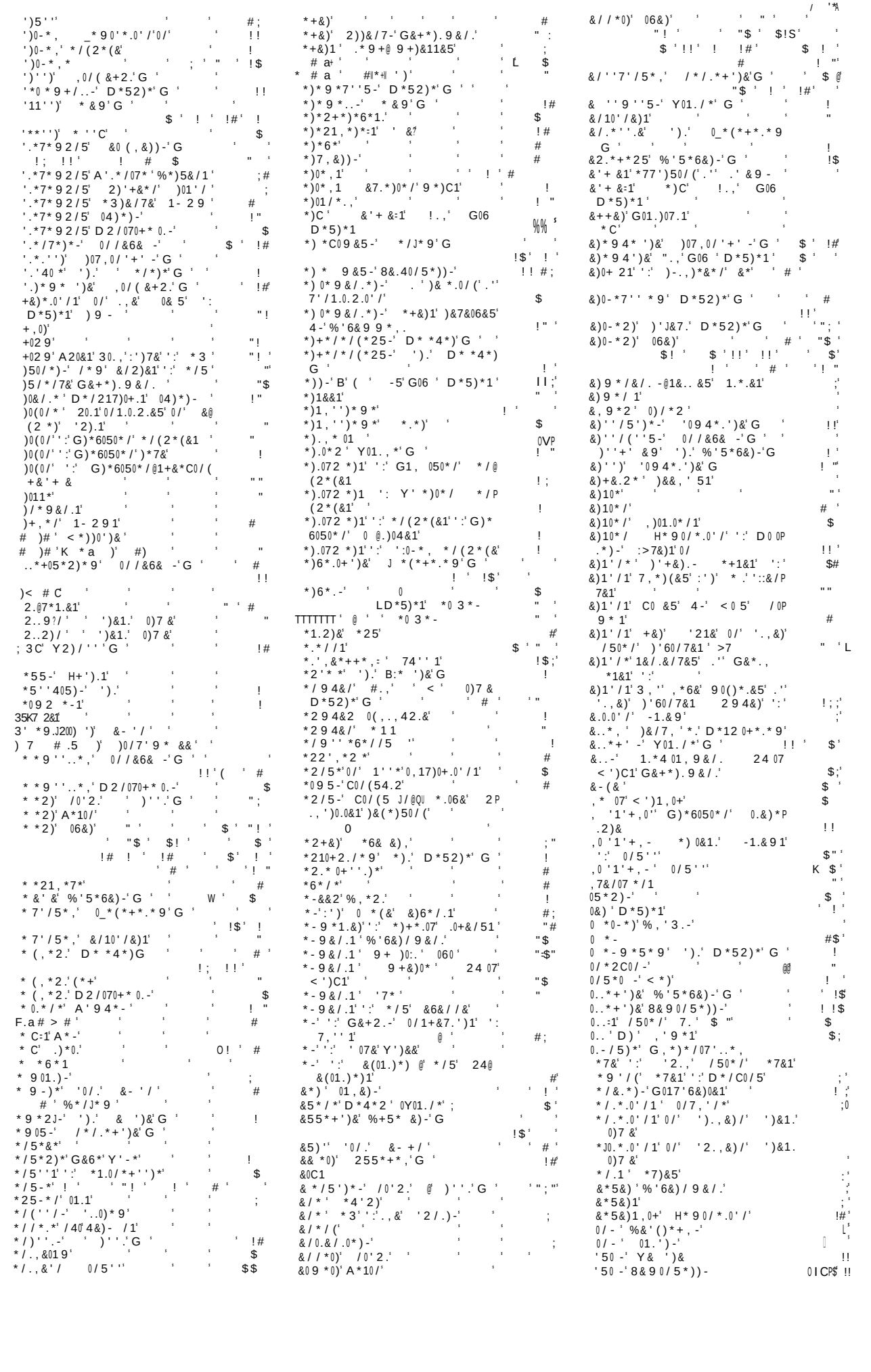

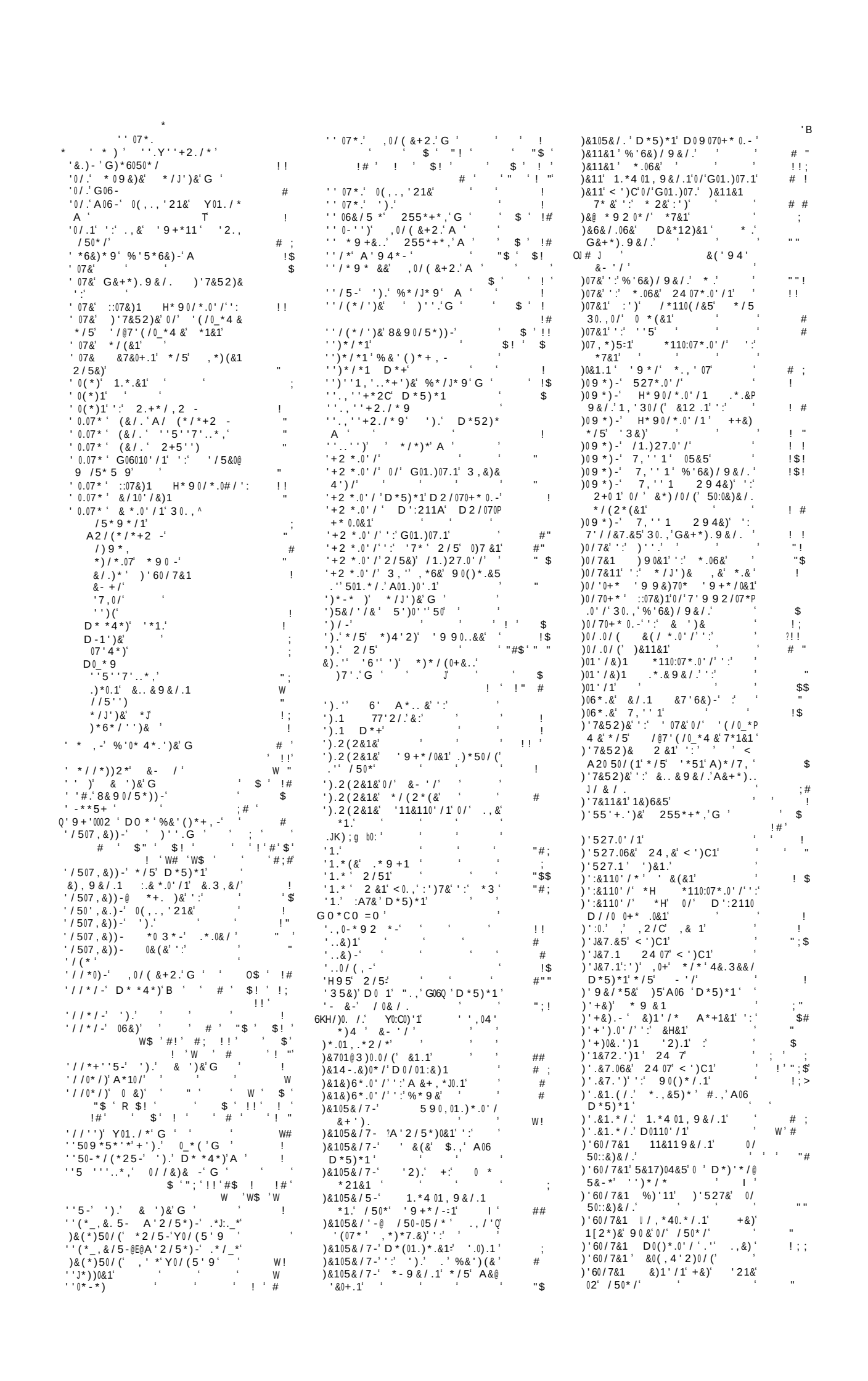

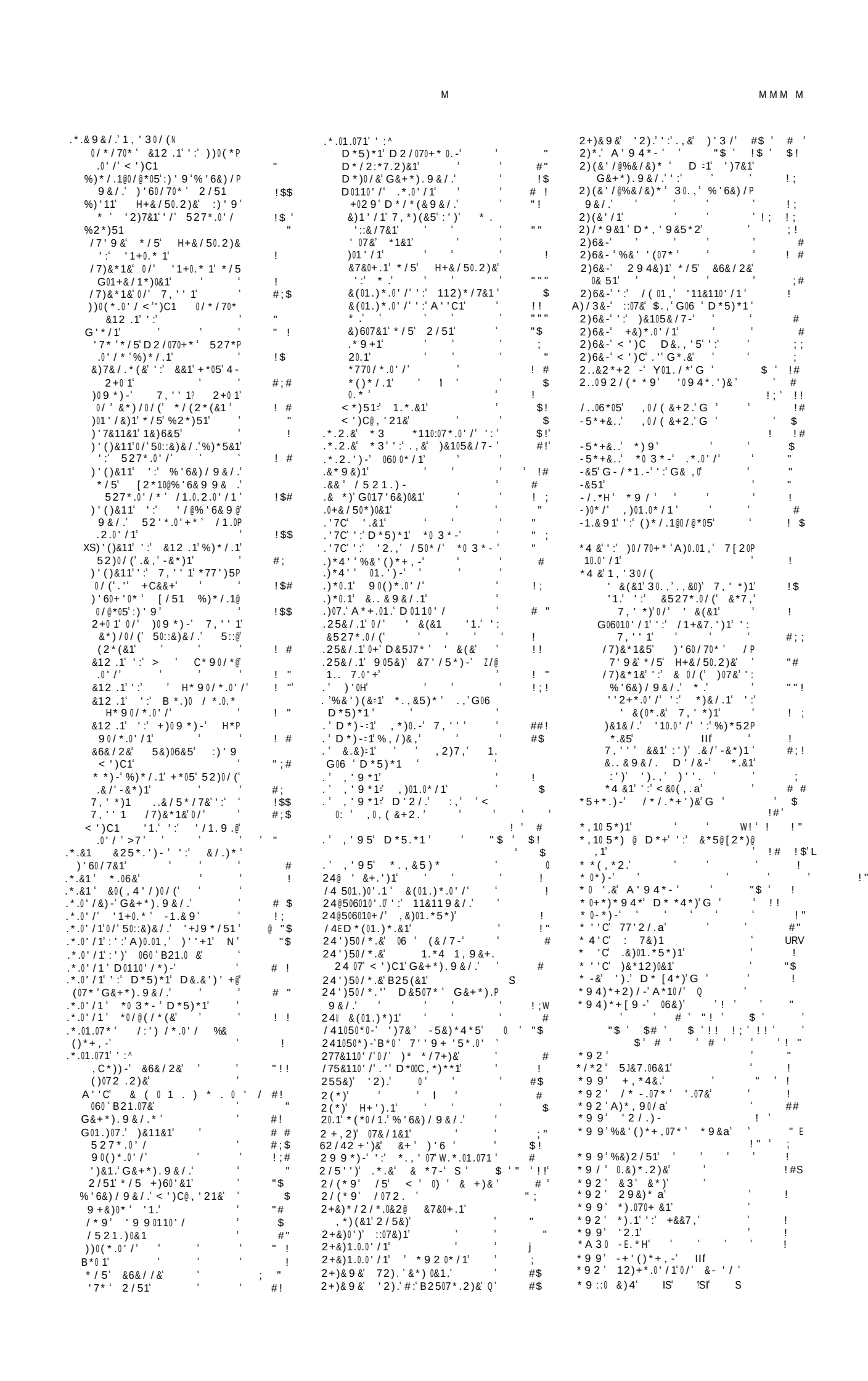

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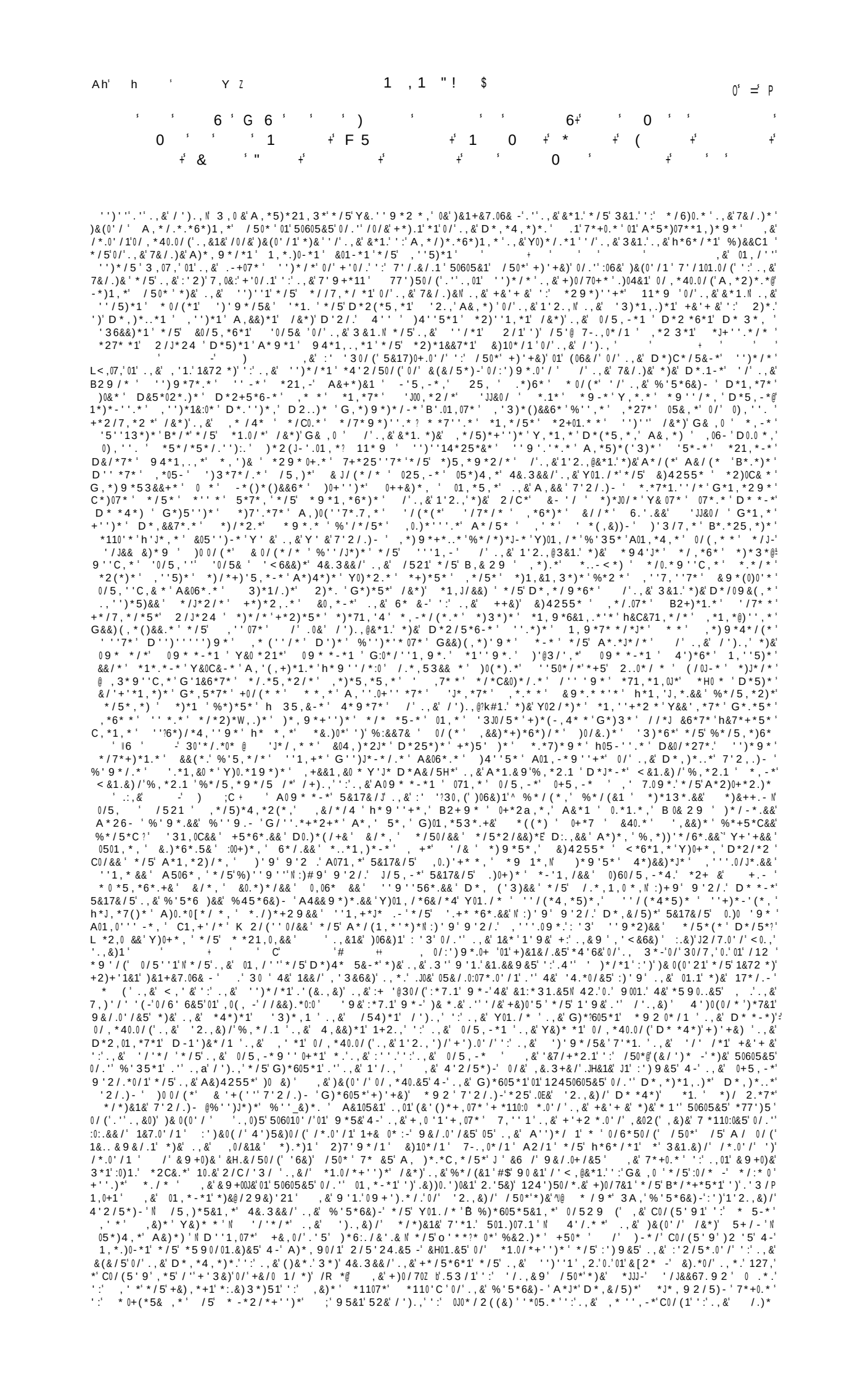
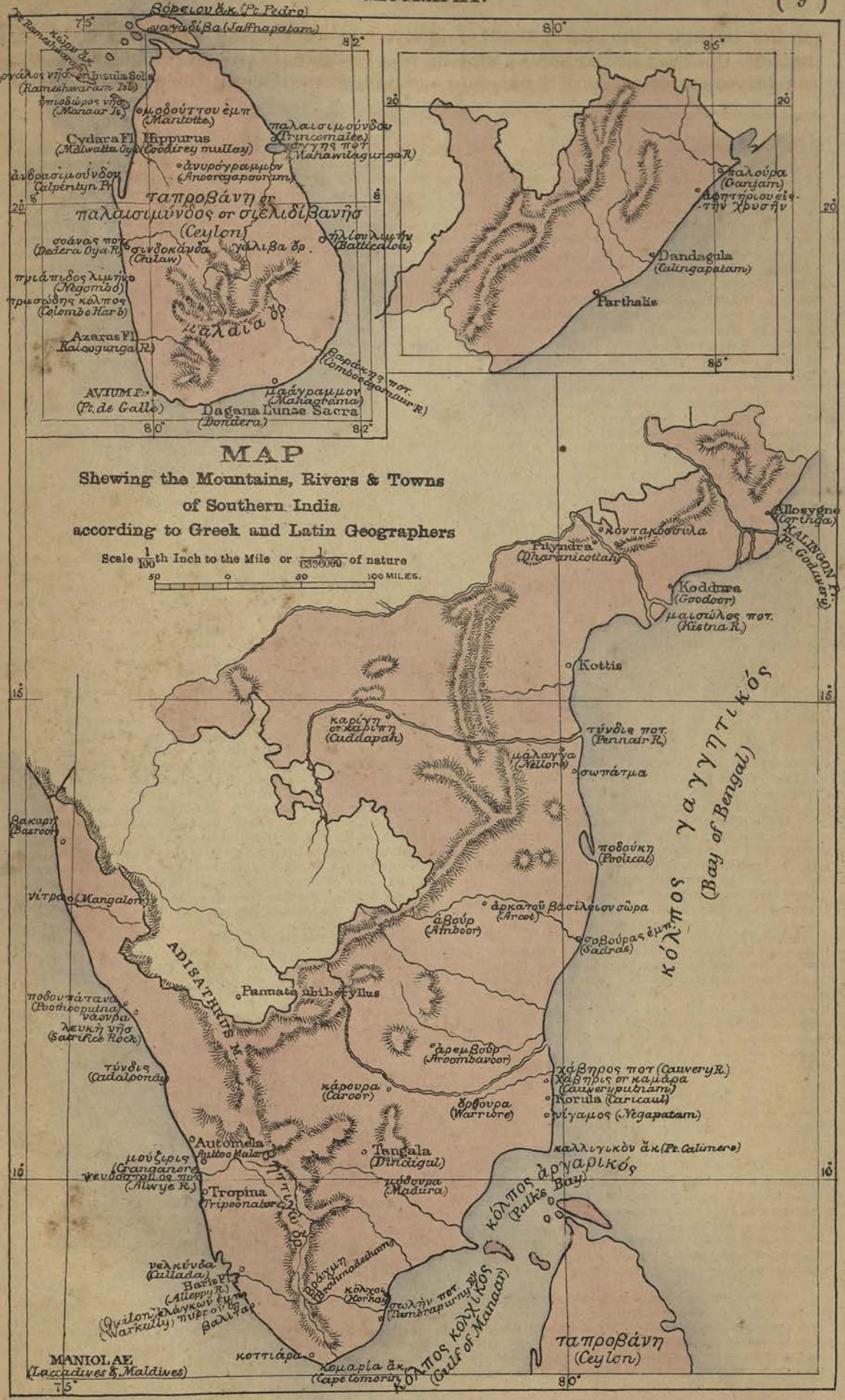


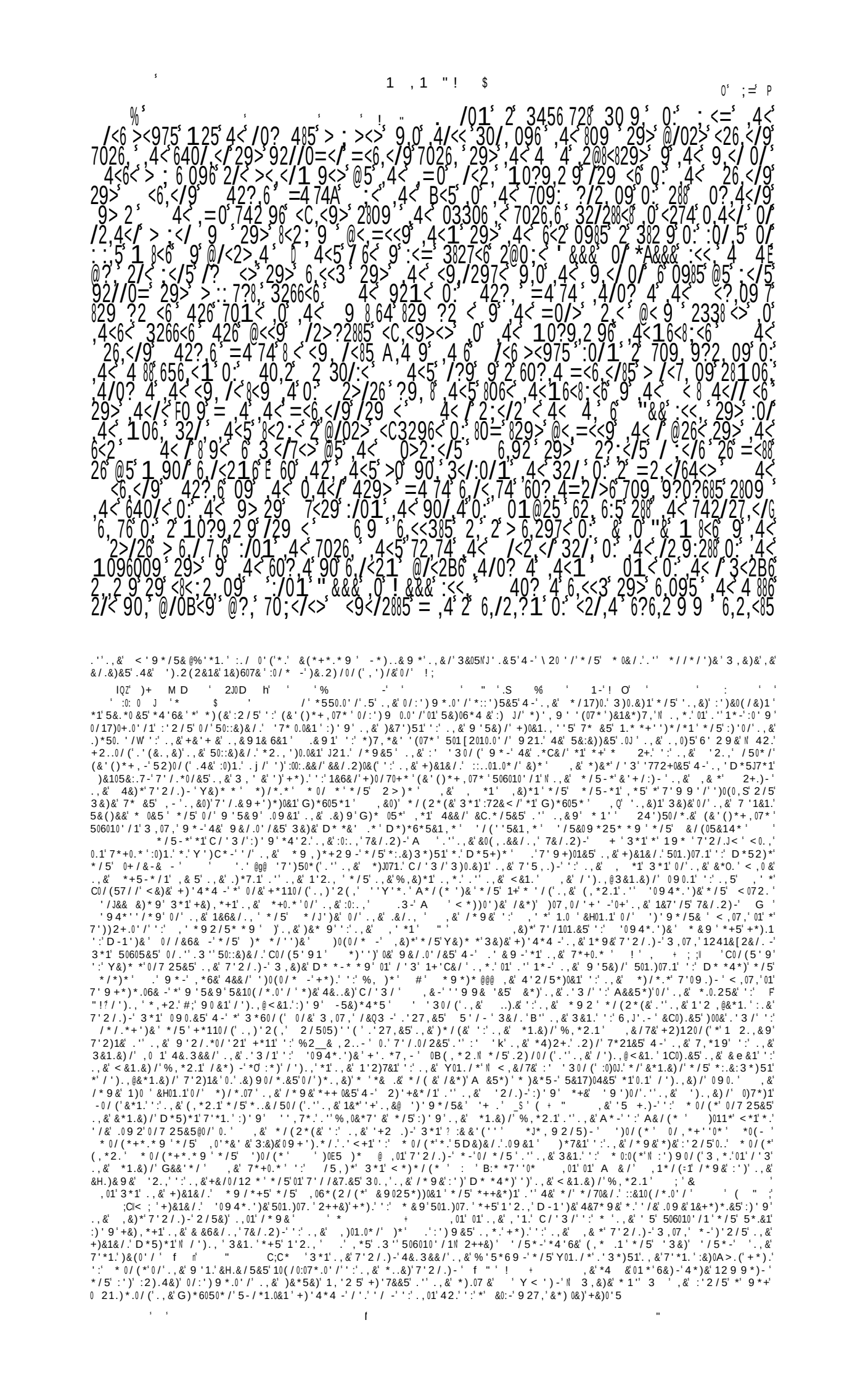
MAP
Shewing so much of the
Geography of Southern India
as can be ascertained from the
Sanscrit Pooranas
Scale 1/1863 Inch to the Mile
or 1/11827200 of nature
93 62 31 0 93 186 Miles
75°
85°
30°
20°
10°
VINDHYA Mts
VINDHYAMOOLICAS
DANDACARANYA FOREST
VEIDOORYA Mts
(S. Vindhyas)
HEIHAYAS
COSALA
Narmadah (Nerbudda) R.
Tapy R.
Mahanuddy R.
VIDARBHA
(Berar)
RICSHA Mts
Nassica
(Nassick)
Triyambacanaudha
SOWRIKIRNAS
CHILKA LAKE
Roosheecolya R.
SABARAS
(Sowrahs)
Rheemaratee R. (Beema)
ANDHRA DESHA
Calyaunapoora
Yarey R.
CALINGA
MAHARASHTRA
(Mahratta Country)
TRILINGA
(Telooguo Country)
Rajah Mahendra
(Rajahmundry)
Godavery R.
Bheesha
SAHYA
CONCANA
CARNATACA
(Canarese Country)
Kistna R.
Mulicarjoona
Toongabudra R.
ABHEERAS
YADRY Mts
(W. Ghauts)
MALAYA
MAHENDRA
(E. Ghauts)
COONTALA
(Adony District)
KERALAS
MAHISHACA
Canchy
(Conjeeveram)
Mahy R.
CHOLA
NEELAGIRY Mts
(Nilgherries)
Cauvery R.
MALAYAR
DRAVIDA
(Tamul Country)
PANDYAS
Vaigavatee R.
(Veigay)
RAMESWARA ISLAND
(Rameswaram)
Collagiry
(Quilon)
MOOSHICA
(Cochin & Travancore)
Tambrapurny R.
(Porny)
LAKSHADWEEPA
ISLANDS
(Laccadives)
LUNKA
(Ceylon)


MAP
Shewing the Mountains, Rivers & Towns
of Southern India
according to Greek and Latin Geographers
Scale 1/100th Inch to the Mile or 1/3360000 of nature
50 0 50 100 MILES.
Βόρειον ἄκ. (Pt. Pedro)
ναγαδίβα (Jaffnapatam)
ἀργάλος νῆσ. or Insula Solis (Rameshwaram Isl.)
ὁμοδούττου ἐμπ. (Manaar)
Cydara Fl. Hippurus (Malwatta Oya) (Coodirey mulloy)
παλαισιμούνδου (Trincomalee)
ἄγγης ποτ. (Mahawilagunga R.)
ἀνδρασιμούνδον (Calpentyn Pt.)
ἀνυρόγραμμον (Anuragapooram)
ταπροβάνη or παλαισιμοῦνδος or σιελιδίβανῆσ (Ceylon)
σοάνας ποτ. (Dedera Oya R.)
σινδοκάνδα (Chilaw)
γάλιβα ὄρ.
πλίουλιμήν (Batticaloa)
πριάπιδος λιμήν (Negombo)
πρασώδης κόλπος (Colombo Harb.)
μαλαία ὄρ.
Azaras Fl. Kaloogunga R.)
AVIUM P. (Pt. de Galle)
Dagana Lunae Sacra (Dondera)
μαάγραμμον (Mahagrama)
βαράκης ποτ. (Combocangamur R.)
Talura (Canjam)
ἀφητήριον εἰς τὴν χρυσῆν
Dandagula (Calingapatam)
Parthalis
Allosygne (Cottinga)
Pt. Calingon Pt.
Pt. Godavery
κονταξοῦλα
Pityndra (Dharanicottah)
Koddura (Goodoor)
μαισώλος ποτ. (Kistna R.)
Kottis
καρίγη or καρίπη (Cuddapah)
τύνδις ποτ. (Pennair R.)
μάλαγγα (Nellore)
σωπάτμα
βακαρή (Bacanor)
ποδούκη (Poolicat)
νίτρα (Mangalore)
ἀρκαταῦ βασίλειον σῶρα (Arcot)
ἀμβούρ (Amboor)
σαβούρας ἐμπ. (Saadas)
κόλπος γαγγητικός (Bay of Bengal)
ADISATHRUS M.
Pannata Ubiberyllus
ποδουπάτανα (Pothreopulna)
νάνρα
λευκὴ νῆσ. (Sacrifice Rock)
ἀρεμβοῦρ (Arcombavoor)
τύνδις (Cadalpondi)
χάβηρος ποτ. (Cauvery R.)
Χαβηρὶς or καμάρα (Cauverypuknam)
Korula (Caricaul)
κάρουρα (Caroor)
ὄρβουρα (Warriore)
νίγαμος (Negapatam)
καλλιγικὸν ἄκ. (Pt. Calimere)
Automela (Puttoo Malay)
Tangala (Dindigul)
μούζιρις (Cranganore)
ψευδοσταλλα ποτ. (Aliwye R.)
Tropina (Tripoonatore)
μόδουρα (Madura)
κόλπος ἀργαρικός (Palks Bay)
νελκύνδα (Cullada)
Baris R. (Alleppy R.)
Βράχμη (Brahmadesham)
Κόλχοι (Korkai)
σωλὴν ποτ. (Amboraparuny R.)
κόλπος κολχικός (Gulf of Manaar)
ταπροβάνη (Ceylon)
κοττιάρα
Κομαρία ἄκ. (Cape Comorin)
MANIOLAE (Laccadives & Maldives)

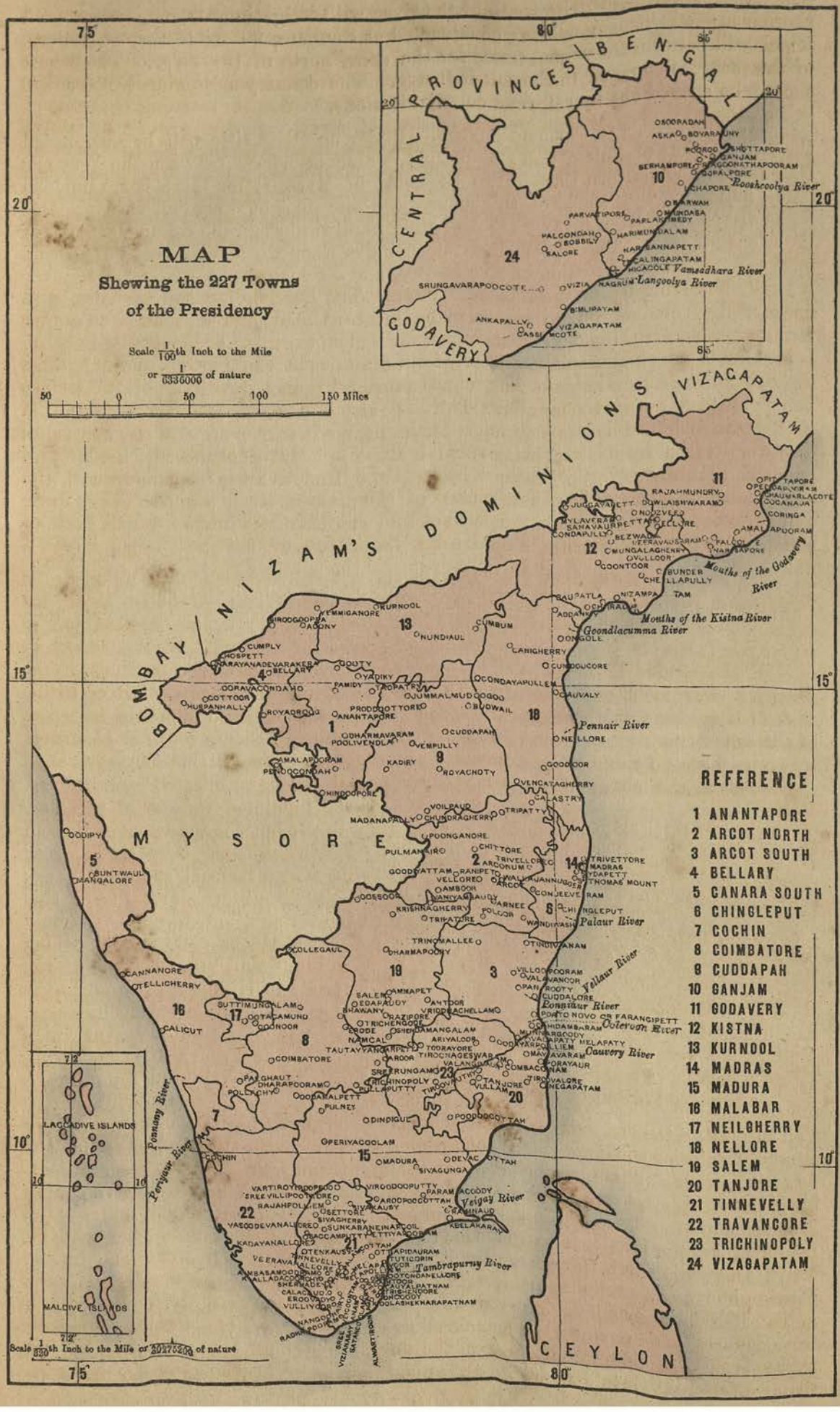
speaking form as much a portion of the Presidency as do the tributary states of Travancore and Cochin on the south. The Amindivy and Laccadive Islands form for administrative purposes a part of Madras Presidency, being attached to

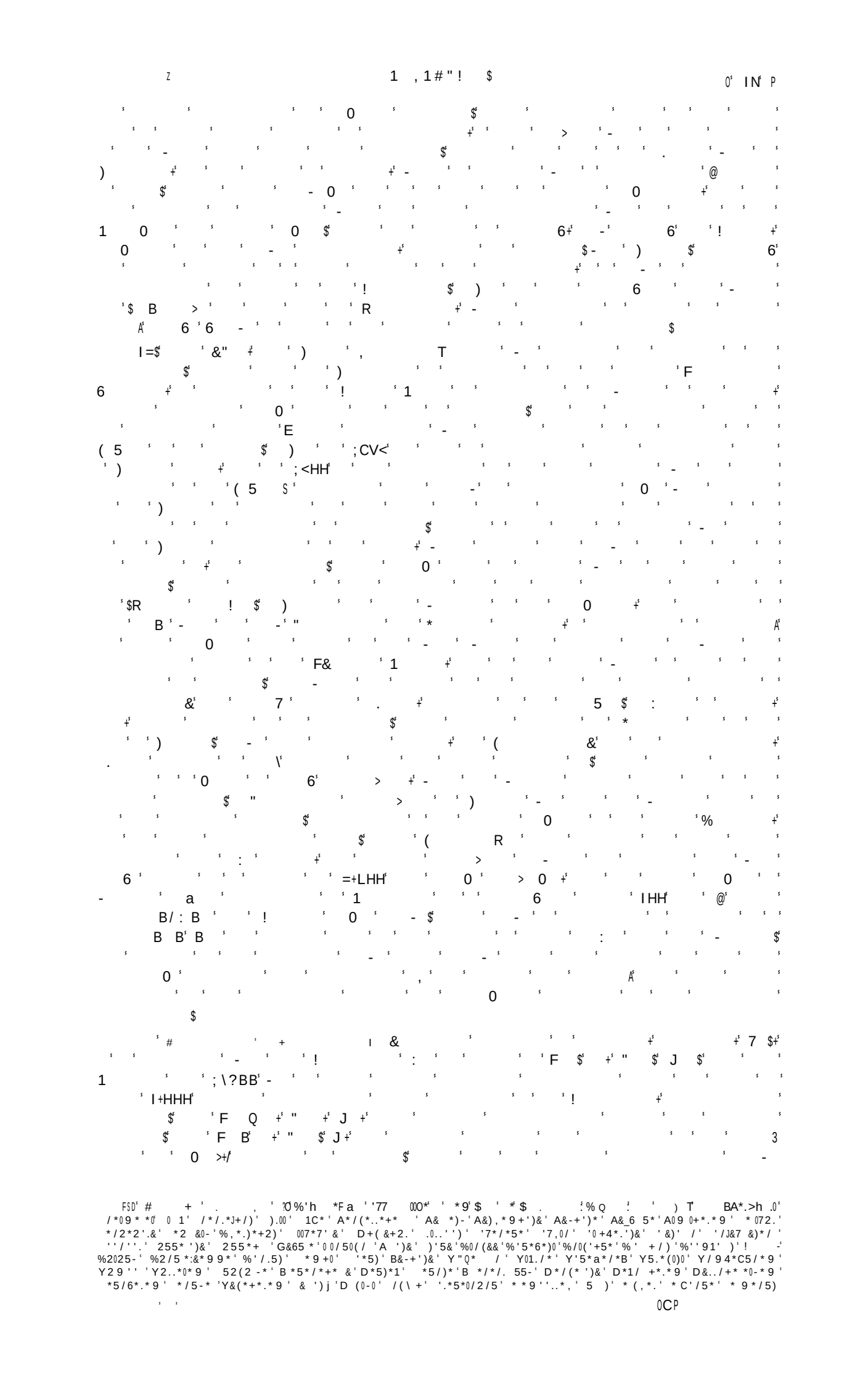
---

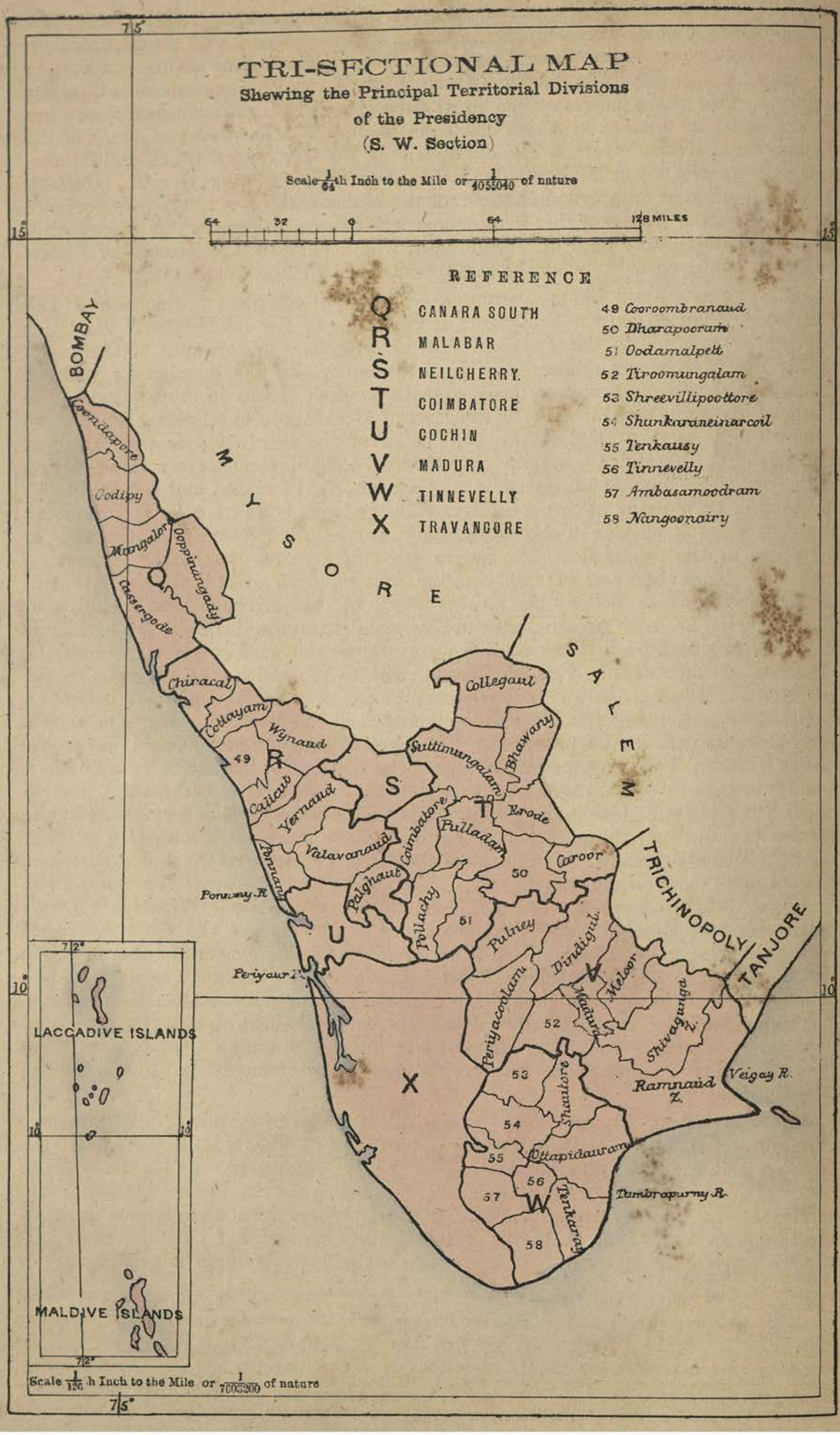
the country of the Turks, and Mount Meroo, which is extremely high. The heavenly bodies perform their revolutions round it, rising and setting on each side of it. A day and a night of this place is each equal to six of our months. The Hima mountains lie on the north of Canouj, and are covered with snow. The five rivers in the north of India are collectively called Panjnaud. The river Sarsoot (Sarsootee) falls into the sea to the east of Somnauth. The Jumna falls into the Ganga below Canouj. The centre of India is called the Madades or middle land (Madhyadesa). Coming south



MAP
Shewing Mountains, Rivers, Lakes
Scale 1/100th Inch to the Mile
or 1/6336000 of nature
30 0 50 100 150 MILES
CENTRAL PROVINCES
BENGAL
COOMSOOR
KASKA
CHETTERPORE
BERHAMPORE
GOPALPORE
Chilka L.
Mahanadi R.
JEYPORE
PARLAKIMEDY
GOLCONDAH
Vamsadhara R.
VIZAGAPATAM
Languliya R.
BIMLIPATAM
NIZAM'S DOMINIONS
RAJAHMUNDRY
COCANADA
Colair L.
MOUTHS OF THE GODAVERY
AMRAVATTY
BEZWADA
MASULIPATAM
Tungabudra R.
KURNOOL
MOUTHS OF THE KISTNA
ONGOLE
Gundlacumma R.
HUMPY
RAMANDROOG
BELLARY
COOTY
BOMBAY
MYSORE
ANANTAPORE
CUDDAPAH
Pennair R.
NELLORE
CALASTRY
TRIPATTY
Poolicat L.
POOLICAT
MADANAPALLY
PULMANAIR
CHITTORE
MADRAS
GUINDY
ST THOMAS' MOUNT
MANGALORE
VELLORE
CONJEVERAM
OOSSOOR
ARNEE
CHINGLEPUT
Palaur R.
JINJEE
TRINOMALLEE
CANNANORE
TELLICHERRY
SHEVAROY HILLS
PONDICHERRY
Ponniaur R.
VEROAUD
SALEM
CUDDALORE
Vellaur R.
PORTO NOVO OR FARANGIPETT
ERODE
Coleroon R.
CALICUT
BEYPORE
Ponnany R.
COIMBATORE
Cauvery R.
TRANQUEBAR
COMBACONAM
TRICHINOPOLY
TANJORE
NEGAPATAM
PULNEY HILLS
PULNEY
DINDIGUL
KODAYKARNAL
POODOOCOTTAH
POINT CALIMERE
COCHIN
MADURA
LACCADIVE ISLANDS
MALDIVE ISLANDS
Vaigau R.
RAMNAUD
PAUMBEN
RAMESWARAM
QUILON
COURTALLAM
TINNEVELLY
PALAMCOTTAH
Tamhrapurny R.
CEYLON
SCALE 320 INCH TO THE MILE OR 20275200 OF NATURE

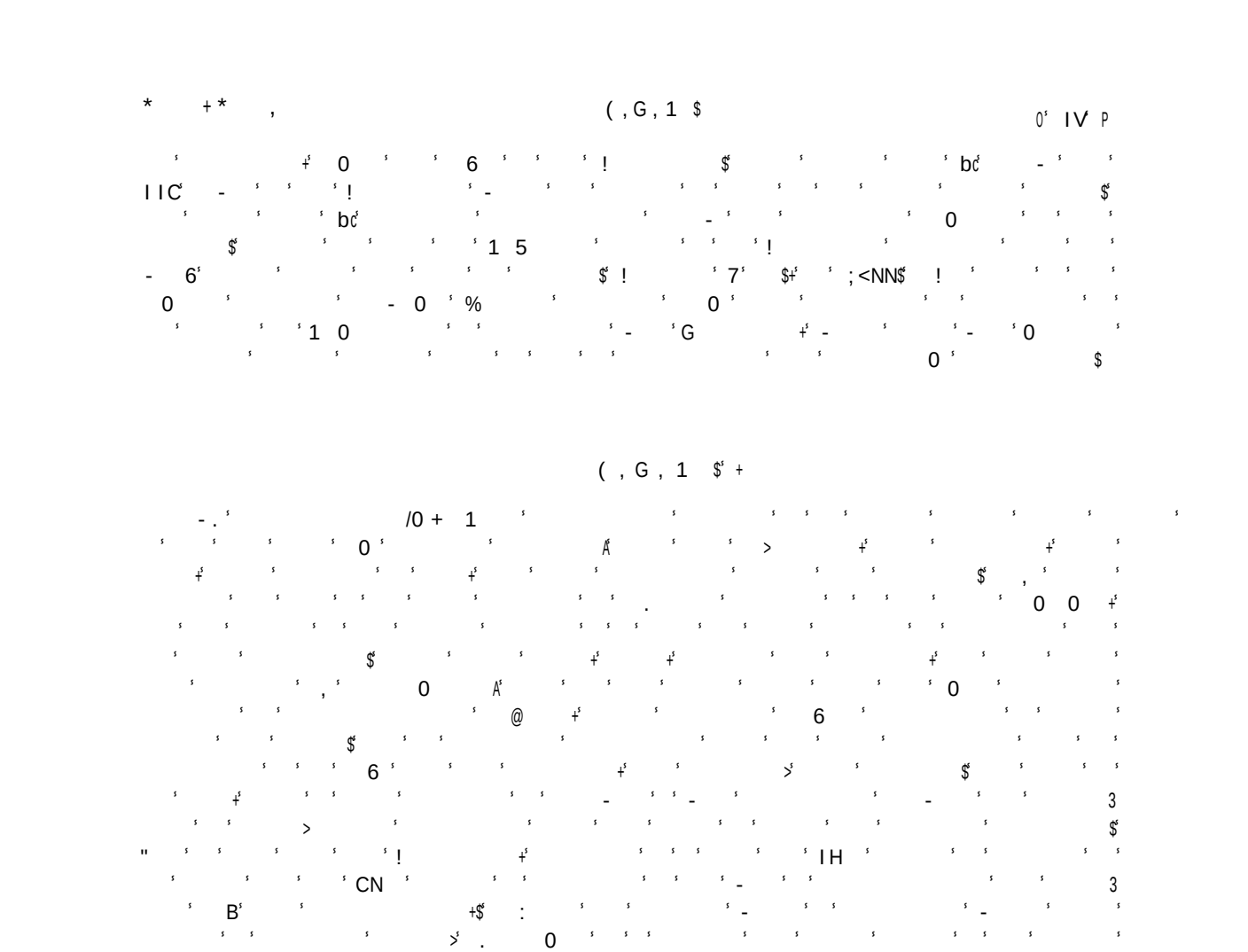

MAP
Shewing the 227 Towns
of the Presidency
Scale 1/100th Inch to the Mile
or 1/633600 of nature
50 0 50 100 150 Miles
CENTRAL PROVINCES
BENGAL
GODAVERY
BOMBAY
NIZAM'S DOMINIONS
MYSORE
CEYLON
VIZAGAPATAM
Vamsadhara River
Langoolya River
Rooshcoolya River
Mouths of the Godavery River
Mouths of the Kistna River
Goondlacumma River
Pennair River
Palaur River
Vellaur River
Ponnaiur River
Coleroon River
Cauvery River
Veigay River
Tambrapurny River
Ponnany River
Periyaur River
LACCADIVE ISLANDS
MALDIVE ISLANDS
Scale 1/630th Inch to the Mile or 1/7560 of nature
REFERENCE
1 ANANTAPORE
2 ARCOT NORTH
3 ARCOT SOUTH
4 BELLARY
5 CANARA SOUTH
6 CHINGLEPUT
7 COCHIN
8 COIMBATORE
9 CUDDAPAH
10 GANJAM
11 GODAVERY
12 KISTNA
13 KURNOOL
14 MADRAS
15 MADURA
16 MALABAR
17 NEILGHERRY
18 NELLORE
19 SALEM
20 TANJORE
21 TINNEVELLY
22 TRAVANCORE
23 TRICHINOPOLY
24 VIZAGAPATAM

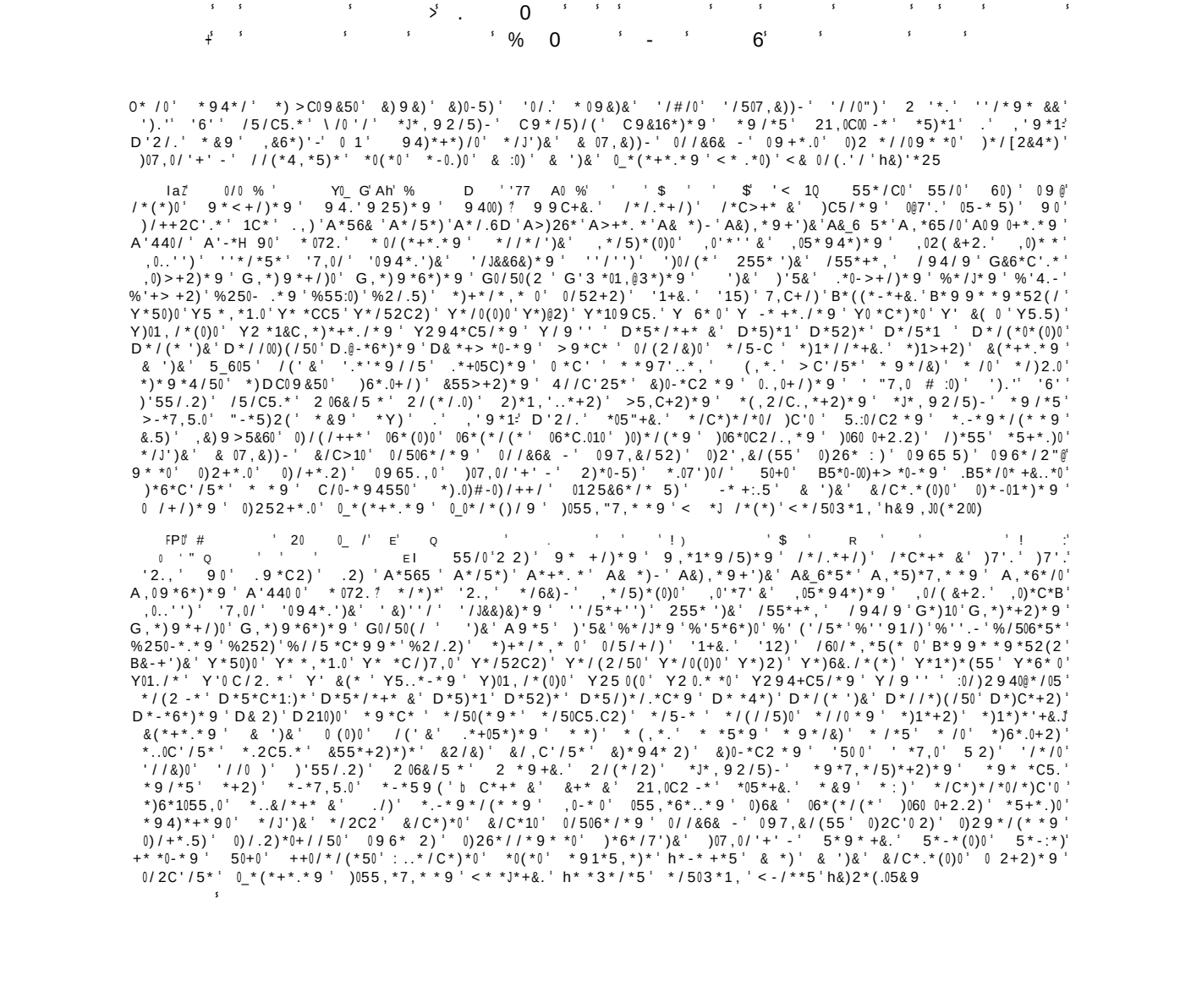


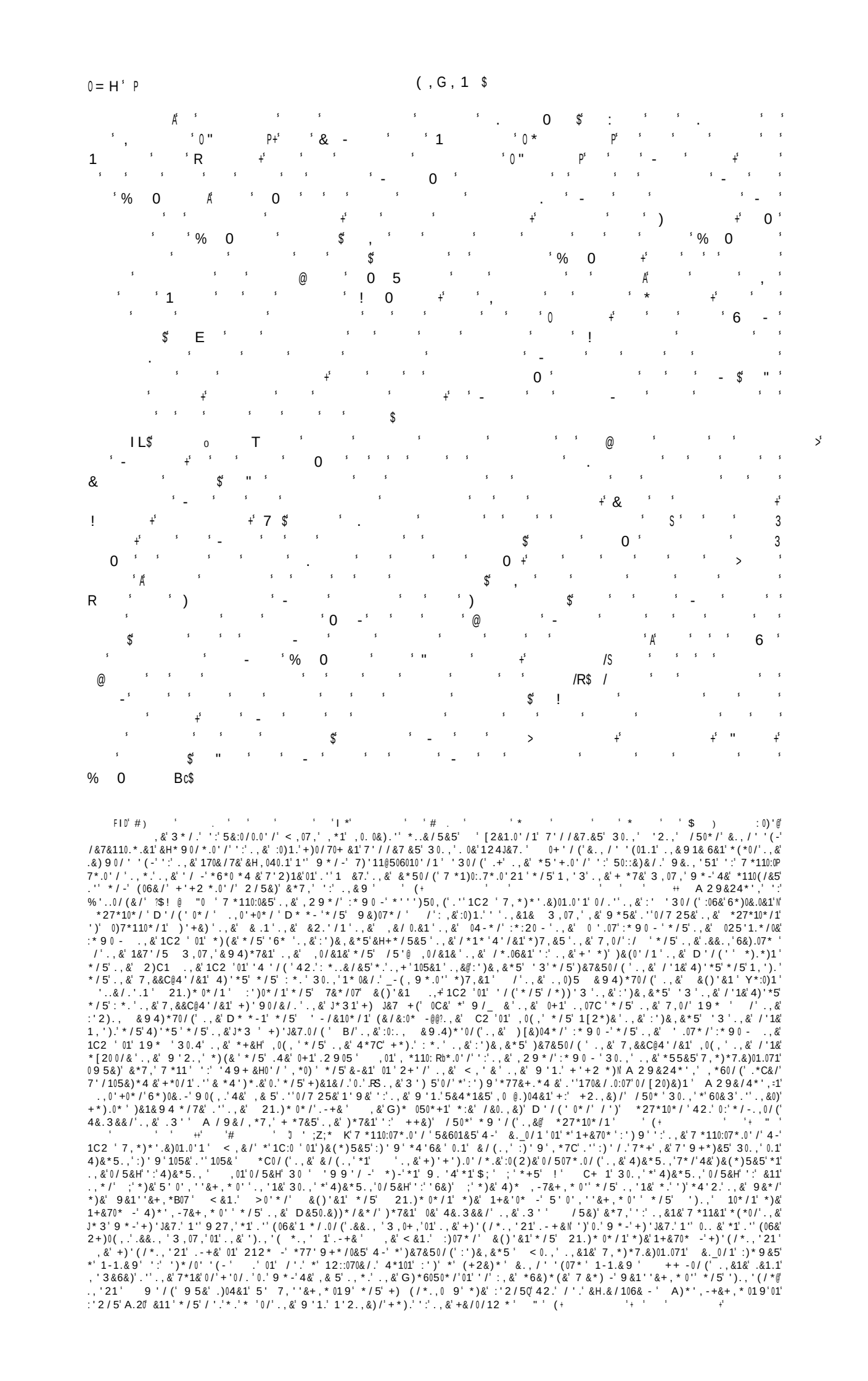

TRI-SECTIONAL MAP
Shewing the Principal Territorial Divisions
of the Presidency
(S. W. Section)
Scale 1/64th Inch to the Mile or 1/4053040 of nature
64 32 0 64 128 MILES
REFERENCE
O CANARA SOUTH
R MALABAR
S NEILGHERRY.
T COIMBATORE
U COCHIN
V MADURA
W TINNEVELLY
X TRAVANCORE
49 Cooroombranaud
50 Dharapooram
51 Oodamalpett
52 Tiroomungalam
53 Shreevillipoottore
54 Shunkaraneinarcoil
55 Tenkaasy
56 Tinnevelly
57 Ambasamoodram
58 Nangoonairy
BOMBAY
MYSORE
SALEM
TRICHINOPOLY
TANJORE
Cannadapore
Codipy
Mangalore
Oppinangady
Cassergode
Chiracal
Colayam
Wynaud
Callicut
Vernaud
Valavanaud
Ponnany
Ponnany R.
Palghaut
Pollachy
Coimbatore
Pulladam
Collegaul
Suttimungalam
Bhawany
Erode
Caroor
Pulney
Periyacoolam
Madura
Dindigul
Melon
Shivaguiga Z.
Ramnaad Z.
Veigay R.
Shaulore
Uttapidauram
Tenkaray
Tumbrapurny R.
Periyaur R.
LACCADIVE ISLANDS
MALDIVE ISLANDS
Scale 1/130th Inch to the Mile or 1/7603200 of nature

TRI-SECTIONAL MAP
Shewing the Principal Territorial Divisions
of the Presidency
(Central Section)
Scale 1/64th Inch to the Mile or 1/4055040 of nature
64 32 0 64 128 MILES
Reference
15 Nundigaima
16 Goontoor
17 Hoovinhadgally
18 Hurpanhully
19 Jummalmudoogoo
20 Proddootore
21 Oodayagherry
22 Madaksira
23 Vencatagherry
24 Madanapully
25 Chundragherry
26 Pulmanair
27 Trivellore
28 Ponnairy
29 Wallajahpett
30 Sydapett
31 Madras
32 Conjeeveram
33 Cungoondy Z.
34 Arnee J.
35 Chingleput
36 Krishnagherry
37 Tirooceilore
38 Poolicat L.
39 Perambalore
40 Chidambaram
41 Shiyally
42 Mayavaram
43 Combaconam
44 Trichinopoly
45 Nunnilum
46 Negapatam
47 Munnargoody
48 Tirootoraypoondy
DOMINIONS
NIZAM'S
BOMBAY
MYSORE
COIMBATORE
MADURA
GODAVERY
Mouths of the Kistna R.
Goondlacumma R.
Pennair R.
Palaur R.
Ponnaur R.
Vellaur R.
Coleroon R.
Cauvery R.
REFERENCE
D. KISTNA
E. KURNOOL
F. BELLARY
G. ANANTAPORE
H. CUDDAPAH
I. NELLORE
J. ARCOT NORTH
K. CHINGLEPUT
L. MADRAS
M. SALEM
N. ARCOT SOUTH
O. TRICHINOPOLY
P. TANJORE

TRI-SECTIONAL MAP
Shewing the Principal Territorial Divisions
of the Presidency
(N E. Section)
Scale 1/64th Inch to the Mile or 1/4053040 of nature
64 32 0 64 128 MILES
85°
20°
15°
BENGAL
CENTRAL PROVINCES
NIZAMS DOMINIONS
KISTNA
Jeypore Z.
Zemindaries
Goomsoor
Chilka L.
Berhumpore
Rooshcoolya R.
Parvatipore
Chicacole
Vamshadhara R.
Langoolya R.
Golcondah
Veeravilly
Rajahmundry
Rekapully
Yernagoodem
Ellore
Tangoloor
Mouths of the Godavery River
A GANJAM
B VIZAGAPATAM
C GODAVERY
REFERENCE
1 Saulore
2 Bobbily
3 Palcondah
4 Gujapatinugger
5 Vizianagram
6 Srungavarapocotta
7 Vizagapatam
8 Ankapully
9 Sarwasiddhy
10 Bhadrachellam
11 Ramchendrapooram
12 Amalapooram
13 Bheemavaram
14 Narsapore







3/<66<>' @5' 0,4</6' ,0' /<7<>',0' ,4<' F?9 8<6' :0?9>' 09' ,4<' 6803<6' 0:' 10?9,2 96' É @?,' /<6 ><97<' 09' ,4<' 6?11 ,6' 0:' 10?9,2 96' ,4<'16<8:<6' :2:0?/6' :2 /9<66' 0:' 7013&<C 09' 29>' 0,4</ 30 9,6' 0:' 6?3</ 0/ ,5' 2@0?/ 9' ,4<' 6?9' >2/B<96' ,4<' 7013&<C 09' 0:' 2' /27<É @?,' ,4 6' 6' 10>: <>' @5' 78 12, 7' 3<7?8 2/ ,<6' @6<97<' 0:' 9,</12// 2 <' @<,=<<9' > ::</<9,' /27<6' 0:' ,6<8:' ><;<8036' :2 /9<66' 0:' 7013&<C 09' /29 0&0 026' > ::</<97<6' :<' =25' ,0' 7 ; 8 I2, 09' 4<' > 6, 97, 096' @<,=<<9' ,4<' :0?/' ,53<6' 2@0;<' 1<9, 09<>' = &&' ,4</<:0/<' @<' 9> 72, <>' @?,' = ,4' 2' ; <=' ,0' ,4<6<' > ::</<9, #F ?6 ></2' , 096' , 72990, @<' >09<' 9' 2' / >' 1299</

%!' 4<' 7&266 : 72, 09' ,6<8:' 6' 2' 12, </' 0:' 2/ ?1<9, ' 9, &' /<7<9,85' 2' ,4<0/5' 4<8>' @5' <,4908 0 6,6' =26' ,42, ,4<' /5296' 2:' </' 9;2> 9' 0/,4</9' ,9> 2' A9> 6?3</G 6<> 9' ,4<' <C 6, 9' 3037?82, 09' <::,<7,<>' ,4<' 621<' 3/07<66' 9' 0?,4</9' 9> 2' !' 4<8>' ,42, ,4<' 942@ ,29,6' ,4?6' 8<:' 9' 077?32, 09' 0:' ,4<' 70?9,/5' =</<' 12 985' 0:' /529' @800>' =' ,4' 0985' 27</,2' 9' <8<1<9,' 0:' ,4<' 2@0/ 928' @800>' 8<:' /<12 9 9 4<' /529' 0/ 2?726 29' /27<' =26' 4<8>' ,0' 42;<' 701<' 9,0' 709,27' 9' 0?,4</9' 9> 2' = ,4' 290,4</ /27<' 3/<6?12@85' < / ,0' 0/' 0:' ,4<' ?6,/28' 29' ,53<' 29>' ,0' 42;<' >/ ;<9' ,4 6' :0/' , <

D& */ '7,)'0J +* &@7' 9 + &H0' /&5' +&'+ &' 30., ' 5*)C' , *0)' * 9 .' &-&1' */5' (&/&)* -' '/ (' 42.' 1' 9&.09&1' 4)' *5' 1C00 1' ,&1&' *)&' ., &' 4&)0*/1' */5' F' 4 *7C' &.1' 8' :' < &1.&)/' 2)'+&' */5' ., &' 5*)C@+' 9 + &H.'+&5' 3 , 0.&' +&'+ &' :' ., &' 7, ')&1' ' :' ., &' D&50.&))*/&*/' < &1.&)/' 10* ' */5' &)10* ' ,&' * 9 2 0*/')*7&1' ' :' ., &' + */0/1' *)&' / ' .', &)&' + *7&5' ' * ') ' ' ')':&11')' *&7C&' ' :' B&/*' , *1')&7&/. -' (06&/' *' 12)6&-' :' ., &' , 2 9 */' 1+&70&1' 0/' 3 ,07,' ., &' G)*6050*/' :* 9 0 -' *)&' :')' ., &' :0)1.' .0 9&' *5&[2*.&-')&7' (/0_&5' ,&' :' '6.0/('0*Q,01'.* 4 &

G&10(/*.0'/'*77')50/('.''., &' , *0)' 7 *110:07*.0'/	294&)' ' :' ., &' 1+&70&1	*9 j' ' :' ., &' 1+&70&1	A			'9&
2:.@, *0)&5' ')' ' 0'+, '7' 90' J' *4'2.' ' 90@' 0'/1' C &&'-@, *0)&5' ')':')0'7' 90' *4'2.'R !;' 90 0'/1'	*+2*/'		&	D/'		&3' %20/&*' */5' D&*/&10*' , 0 0+ +0/&' 1*/51' D* *77*
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	Y*:)&'	X'	)	D/' I		'2.,' :)07*' 4&.3&&/' ;p' *.' */5' !p' *.
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!	21.)*0*/'		&	D/'		/1.)*0*
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	9&)07*/'		&	D/'		,&' 3, ' &' ':' 9&)07*' 30., ' ., &' &H7&+.0' /' ':' ., &' &H.)&9&' /').,
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	D&50.&))*/&*/	!!;	)			/'* ' +*).1' ':' ., &' 3')5', *60/(' 90()*.&5':)'9' '2.,' 10*' .'' ')., ' :)07*' */5' '2.,' 2)'+&
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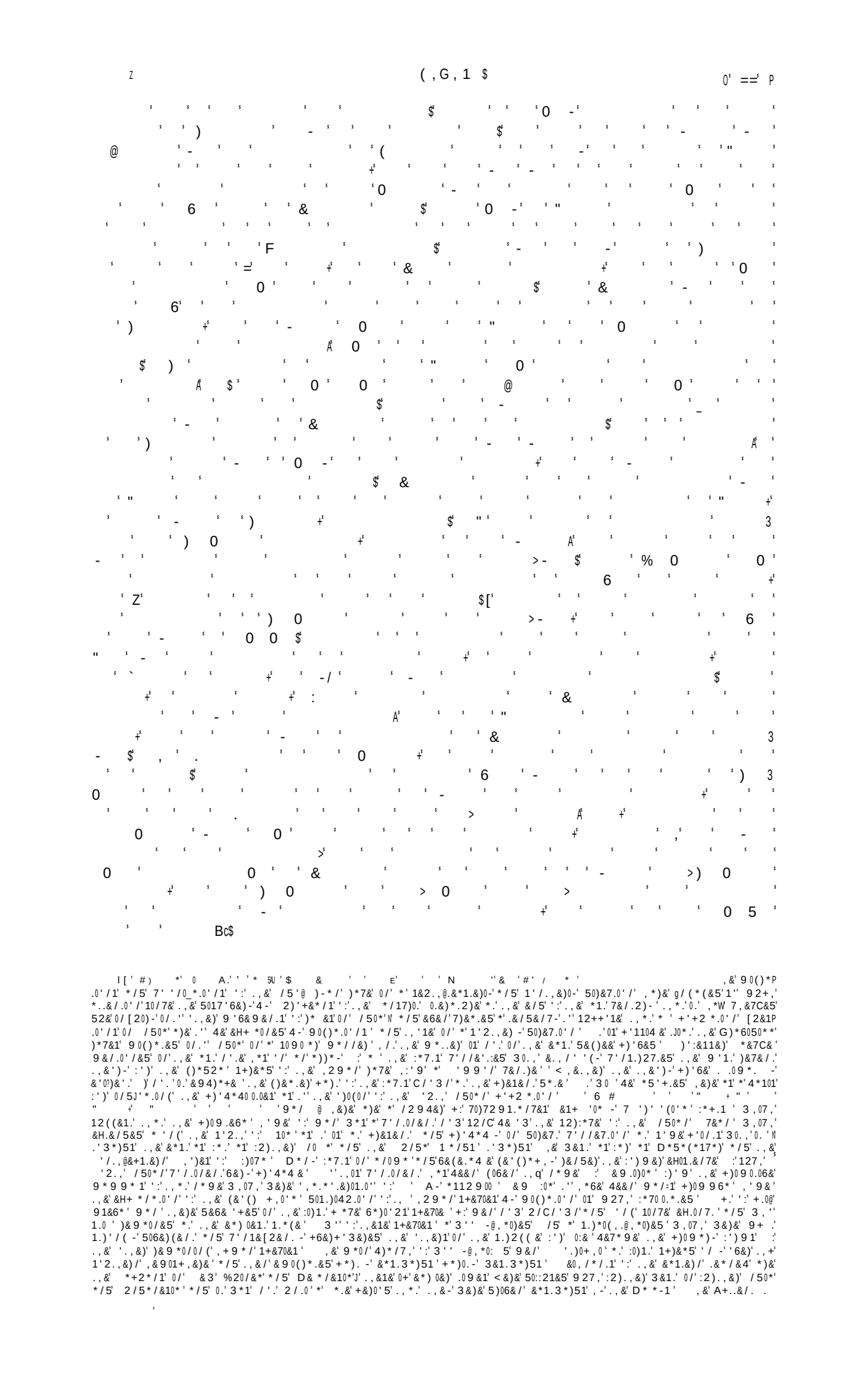
' 29/' ' 5&/'.&1'., &' *6&)*(&' /294&)' ':' ., &' +', *.0'/' 0/' 90 0'/1' [29/'A'1, '31'., &' 5&()&&' ':' ., &', -&.0'' 5&6& '+9&/.' ':' ., &' 1+&70&1' ., 21' @&' r ')'()&1106&' 50::210':0N ''nN' 9+*).06&' 1.*400.-N &' r ' &.)'()&110'/' */5' &H.0/7.0'/' ' 29/' ;' 5&/'.&1'., &' 7, *)*7.&)' ':' ., &' +)09*&6*' */(2*(&'N D/' D'/'('..'/07' 10(/0:0&1' ., *.' ., &' 1+&70&1' , *5' '/&' 109+&' +)09*&6*' */(2*(&'0' ' -('..'/7'*'7':0+'.95' +)09*&6*' */(2*(&' ,&' :'2)'1+&70&1' ':' 3''-P , *0)&5' 9&/' 9*-', &')&527&5'*1'0/' ., &' .*4 &'.'.3'' ()'2+1'#.2:.@, *0)55'*/5': &&7-@, *0)&5' ,&' , *0)' '/' ., &', &*5' ':' ./:.@, *0)&5' 9&/' '+, ''' 90'< J.7 ' *+2*/1'*/5' '..&/.'.1' ()'31'0/'2/&[2* -'50605&5'19*':.2:.1' ,&' 3'' -' , *0)' ':' : &&'-@, *0)&5' 9&/')0'7'90' +05K7/'Q'/' ., &' ., &)', */5'0/' Y*::)&1'*/5' &()'&1'()'31' &[/* -'* ''6&)'., &' *C0/' ':' ., &', &*5' ' B'.)0', 0'')'3'' -@, *0)&5' 91/', *6&' 1*/.0/('.&&.,'*/5' '/(' ,&*51'*/5'., &' 7' '2)' ':' ., &0) 1C0/', *0)' */5' &-&1'01' * 3*-1' 6&)-'5*)C' ' *)&' 0/, *40.*/.1' ':' ., &' '2., &)/' &901+, &)&N 0.'01'*/-'0/' :)07*'., *' ., &-'7'9&' /')., ' ':' ., &' &[2*.')' ,&-'*)5' '/' ., &' 3, ' &'*'*' 927,' '3&)' 1.*(&' ':' 5&6& '+9&/.' ., */' 9'1.' ':' ., &' &0'.)07, 0' ')' 19''., @, *0)&5' 9&/' ,&' J'.)0&, 0'*++&*)' .'', &'0/7*+*4&' ':' *', 0(,'9&/.*'5&6& '+9&/.' ''3''-P , *0)&5' /*.0'/', *1'&6&)' , *5' */'09+').*/.' ,01.')-' /'., &' &0(, .' ,0(0&)')*7&1' ':' 9&/'3, 07, ' *)&' 7*11&5' *1'19''., ' , *0)&5' &0'.)07, 0' ., &', *0)' ':' ., &', &*5'01'.0&6&)'*7.2* -'@3'' :-'* ., '2(,'0.'01'6&)-'927,':)0__ &5'0/'1'9&0/506052*1' 6&)-'1&+*)*.&' , *0)'01'7-0/5)07*' 0'.' 0C&'>'.*+& ' */5', &/7&'0.1'1&7.0'/'01'70)72 *)' /''6* ' ,&' &0(,.')*7&1':' &0'.)07, 0' 9*-' 0C&3 01&' 4&' 50605&5'0/.'' .3'' ()'2+1 1.0::@, *0)&5' * 5' 72)-@, *0)&5' .0::@, *0)&5' 9&/' 2., -7'90' + 5J -., &', *0)' ':' 3, '1&', &*51'01' [20.&'1.)*0(, .' */5' /'.':)0__ &5'0/725&' 21.)*0*/1' D**-1' D'/('0*/1')7.07' .)04&1'*/5' 9&)07*/1' 2)-@, *0)&5'9&/' 2+'7*90' '/', &' ., &)', */5', &', *0)' ':' 3, '1&', &*51'01'9')&')' &11' 72)-' */5'0/' 3, '9' ., &' 4&*)5'01' 9')&' 5&6& '+&5', */'0/*' ' '., &)' 1+&70&1' 0/7 25&' ., &' G)*6050*/1' 240*/1' */5' D&50.&))*/&*/')*7&1' ,&' G)*6050*/1' *)&' ., 21' 7*11&5' 30., ' ., &' &0'.)07, 0' ')' 19''., @, *0)&5N */5' 30., ' ., &' D&50.&))*/&*/1' */5' ., &)1' ':' ., &' '2)-@, *0)&5' 6*)0&.-'*1'++'1&5' .'' ., &' D* *-1' */5' D'/('0*/1' ':' ., &' 1.0::@, *0)&5' 6*)0&.-' ,01'01'0/'*77')5*/7&'30., ' ., &' 9'1.7*772)*.&' '41&)6*.0'/' ,&' D* *-'*/5' D'/('0*/' &&9&/.1' *)&', '3&&)' .'' 4&' /'.07&5'0/'*'6&)-'10(, .' 5&()&&' *9'/(' ., &' '2., ' 9J0*/' +'+2*.0'/1'*/5' ., &' 21.)*0*/' &&9&[.'0/'[' *)(&)'



Bc$

I [' #) *' 0 A .' ' ' * 5U ' $ & ' ' E' ' ' N ''& ' # ' / * ' ,&' 9 0 ()* P
.0 ' / 1' * / 5' 7 ' ' /0_ *.0 ' / 1' ' :' . ,&' / 5 ' @)- * / ')* 7&' 0 / ' *' 1&2. ,@.&*1.&)0-' * / 5' 1 ' / . ,&)0-' 50)&7.0 ' / ' , *)&' g / (*(&5' 1 '' 9 2+,'
..& / .0 ' / ' 10 / 7& ' . ,&' 5017 '6&)-' 4 -' 2)' +& / 1' ' :' . ,&' * / 17)0.' 0.&)*. 2)&' *. ' . ,&' & / 5' ' :' . ,&' *1.' 7& / .2)- ' . , *. ' 0.' , *W 7 , &7C&5'
52&' 0 / [20)-' 0 / . '' ' . ,&)' 9 '6&9 & / .1' ' :')* &1' 0 / ' / 50*' N * / 5' &6& / ' 7)&*. &5' *' .& / 5& / 7-' . '' 12++'1& ' . ,*. ' * ' +' +2 *.0 ' / ' [2&1P
.0 ' / 1' 0 / / 50*' *)&' . '' 4&' &H+ *0 / &5' 4 -' 9 0()*. 0 ' / 1 ' * / 5' . , '1& ' 0 / ' *' 1 ' 2. , &) -' 50)&7.0 ' / ' .' 01' + '1104 &' . J0*. ' . , &' G)*6050*' *'
)*7&1' 9 0()*. &5' 0 / . '' / 50*' 0 / ' *' 10 9 0 *)' 9 * / / &) ' , / . ' . , &' 9 *..&)' 01' / ' . ' 0 / ' . , &' &*1. 5&()&&' +)' 6&5 ')' :&11&)' *&7C&'
9 &/ .0 ' / &5' 0 / ' . , &' *1. ' / ' . &' , *1' ' / ' * / ' *))*-' :' * ' . , &' :*7.1' 7 ' / / &' . :&5' 3 0 . , ' &. , / ' ' (-' 7 ' / 1.)27.&5' . , &' 9 '1. ')&7&/ .'
. , &')-' : ')' . , &' ()*52*' 1+)&*5' :' . , &' , 2 9 * / ')*7&' , :' 9 ' *' ' 9 9 ' / ' 7&/ .)&' ' < , &. , &)' . , &' . , &')-' +)' 6&' . .0 9 *. -'
&'0?)&' . ') / ' . '0. ' &9 4)*+& ' . , &' ()&*. &)' +*). ' :' . , &' :*7.1' C / ' 3 / ' *. ' . , &' +)&1&/ . ' 5*. &' ' .' 3 0 ' 4&' *5 '+. &5' , &)&' *1' *' 4*101'
: ')' 0 / 5J ' *. 0 / (' . , &' +)' 4*40 0.0&1' *1' . '' . , &' ')0(0 / ' :' . , &' '2. , ' / 50*' / ' +' +2 *.0 ' / ' ' 6 # ' ' ' ' + " ' '
" ' " ' ' ' ' ' 9 * / @ , &)&' *)&' *' / 2 9 4&)' +:' 70)72 9 1. * / 7&1' &1+ '0* -' 7 ')' ' (0 ' * ' :*+. 1 ' 3 , 07,'
12((&1. ' . , *. ' . , &' +)0 9 . &6 * ' , ' 9 &' ' :' 9 * / ' 3 * 1' *' 7 ' / . 0 / &/ . ' / ' 3 ' 12 / C' 4& ' 3' . , &' 12):*7&' ' :' . , &' / 50*' / ' 7&* / ' 3 , 07,'
&H. &/ 5&5' * ' / (' . , &' 1 ' 2. , ' ' :' 10* ' *1' . ' 01' *. ' +)&1&/ . ' * / 5' +)' 4*4 -' 0 / ' 50)&7. ' 7 ' / / &7.0 ' / ' *. ' 1 ' 9 &' +' 0 / . 1' 3 0. , ' 0. ' N
. ' 3 *)51' . , &' &*1. ' *1' : *. ' *1' :2). , &)' / 0 *' * / 5' . , &' 2 / 5*' 1 * / 51' . ' 3 *)51' , &' 3&1. ' *1' :*)' *1' D*5*(*17*)' * / 5' . , &'
' / . , @&+1. &) / ' , ')&1' ' :' :)07* ' D * / -' :*7.1' 0 / ' * / 0 9 * ' * / 5' 6&(&. *4 &' (&' ()*+, -')&/ 5&)' . , &' : ') 9 &)' &H01. &/ 7&' :' 127,'
' 2. , ' / 50*' / ' 7 ' / . 0 / &/ . ' 6&)-' +)' 4*4 &' ' ' . , 01' 7 ' / . 0 / &/ . ' , *1' 4&&/ ' (06&/ ' . , q' / * 9 &' :' &9 . 0)0*' :)' 9 ' . , &' +)0 9 0 . 06&'
9 * 9 9 * 1' ' :' . , *. ' / * 9 &' 3 , 07, ' 3 &)&' ' , *. * ' . &)01. 0 ' ' :' ' A -' *112 9 00 ' &9 :0*' . '' , *6&' 4&&/ ' 9 * / :1' +)0 9 9 6*' , ' 9 &' '
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1. 0 ')&9 *0 / &5' *. ' . , &' &*) 0&1. ' 1. *(&' 3 '' ' :' . , &1&' 1+&70&1 ' *' 3 ' ' -@, *0)&5' / 5' *' 1.)*0(, . @, *0)&5' 3 , 07, ' 3 &)&' 9+ . '
1.)' / (-' 506&)(&/ . ' * / 5' 7 ' / 1&[2&/ . -' +6&)+' 3 &)&5' . , &' ' . , &)1' 0 / ' . , &' 1.)2((&' :')' 0:&' 4&7*9 &' . , &' +)0 9 *)-' :') 9 1' :'
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1' 2. , &)/ ' , &9 01+ , &)&' * / 5' . , &/ ' &9 0()*. &5' +*). -' &*1.3*)51' +*)0. -' 3&1.3*)51 ' &0, / * / .1' ' :' . , &' &*1.&)/ ' . &* / &4' *)&'
. , &' *+2* / 1' 0 / ' &3' %20 / &*' * / 5' D & * / &10*' J' . , &1&' 0+' &*) 0&)' .09 &1' < &)&' 50::21&5' 9 27, ' :2). , &)' 3&1. ' 0 / ' :2). , &)' / 50*'
* / 5' 2 / 5* / &10*' * / *5' 0. ' 3*1' / ' . ' 2 / .0 ' *' *. &' +&)0' 5' . , *. ' . , &-' 3&)&' 5)06&/ ' &*1.3*)51' , -' . , &' D* *-1 ' , &' A+. . &/ . .

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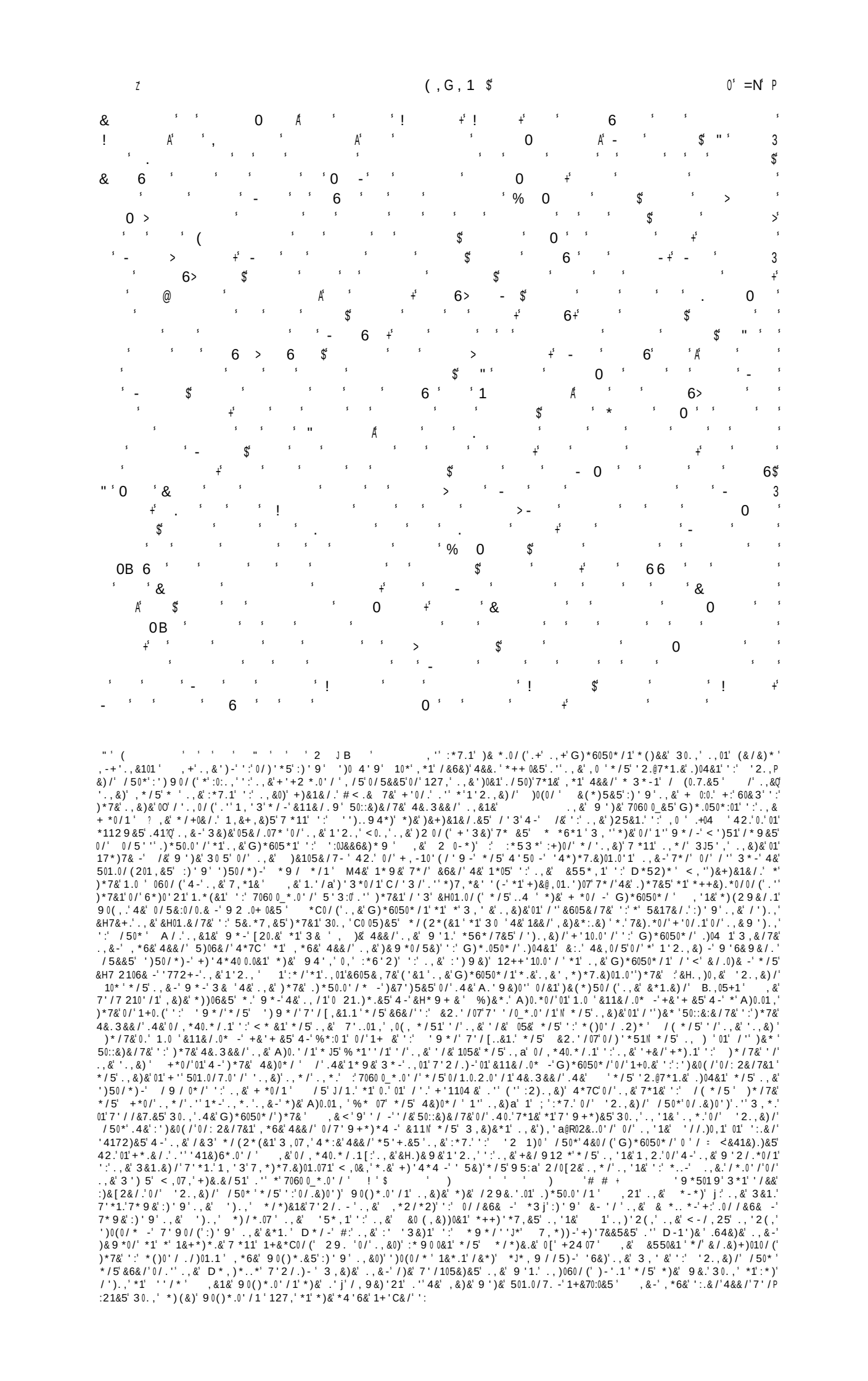
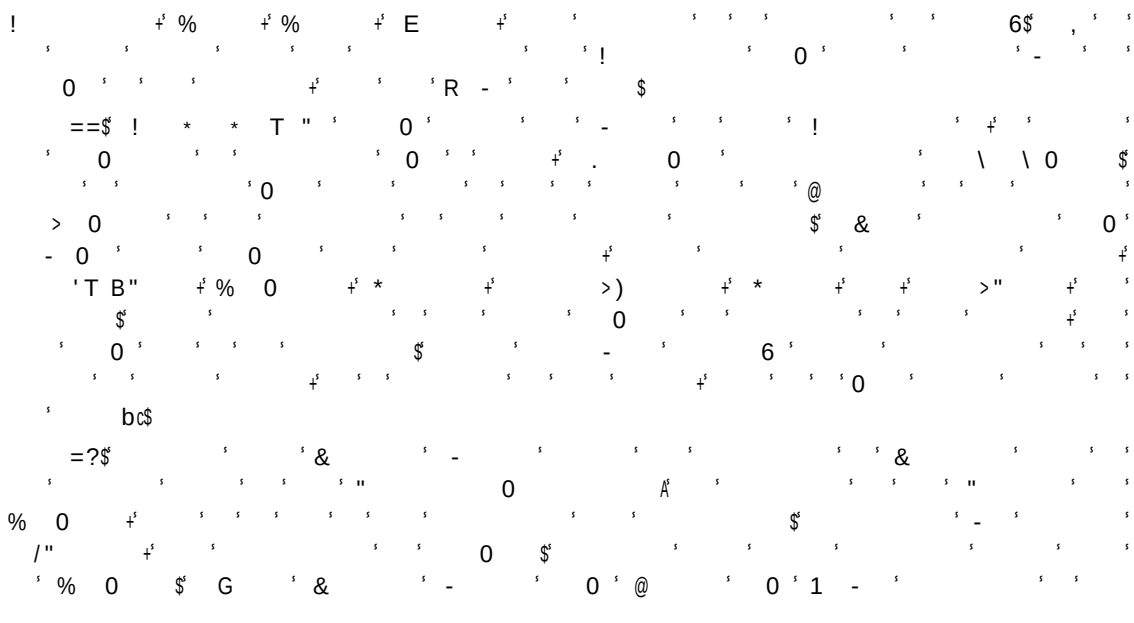
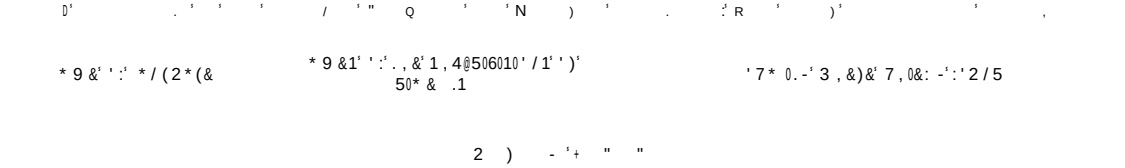
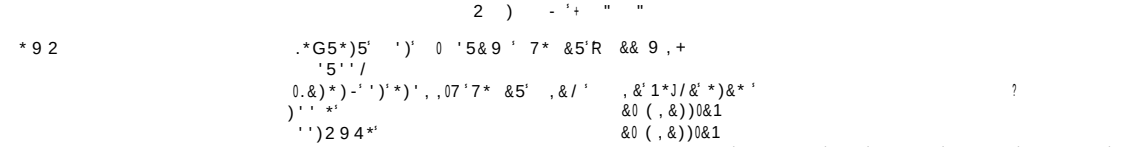
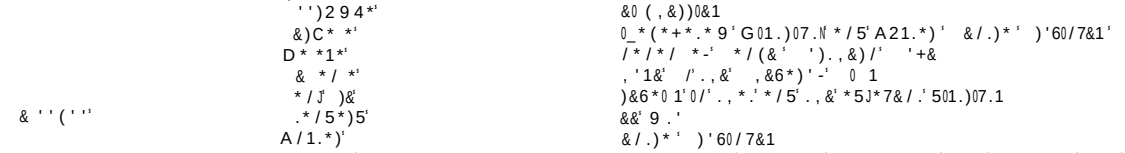
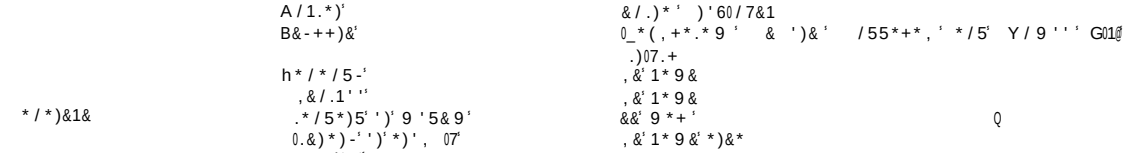


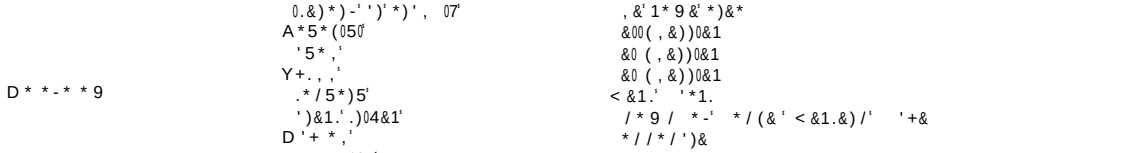


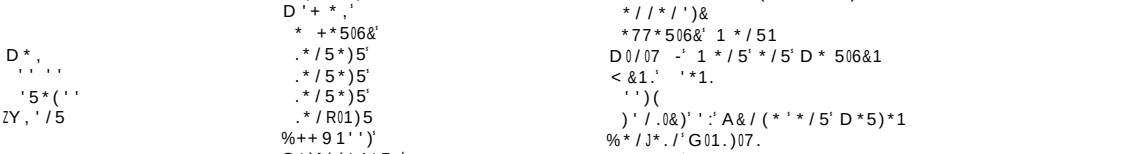


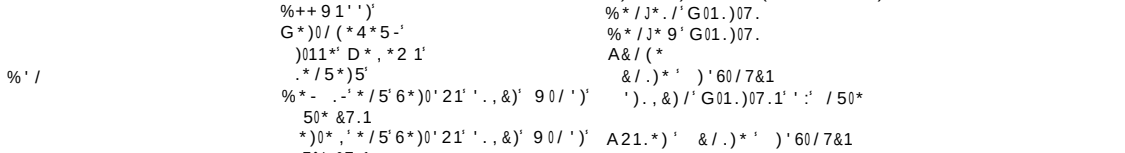


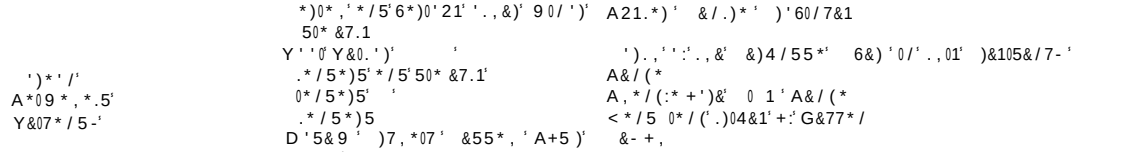


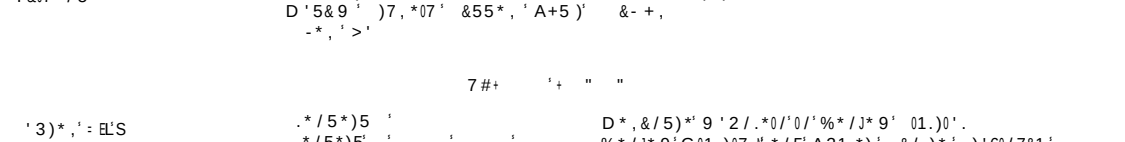


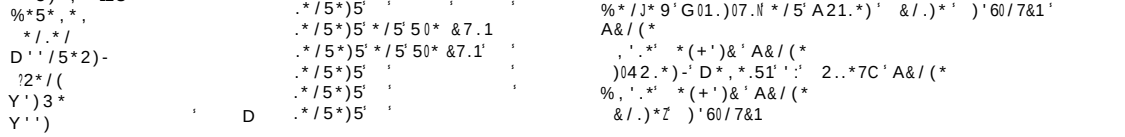


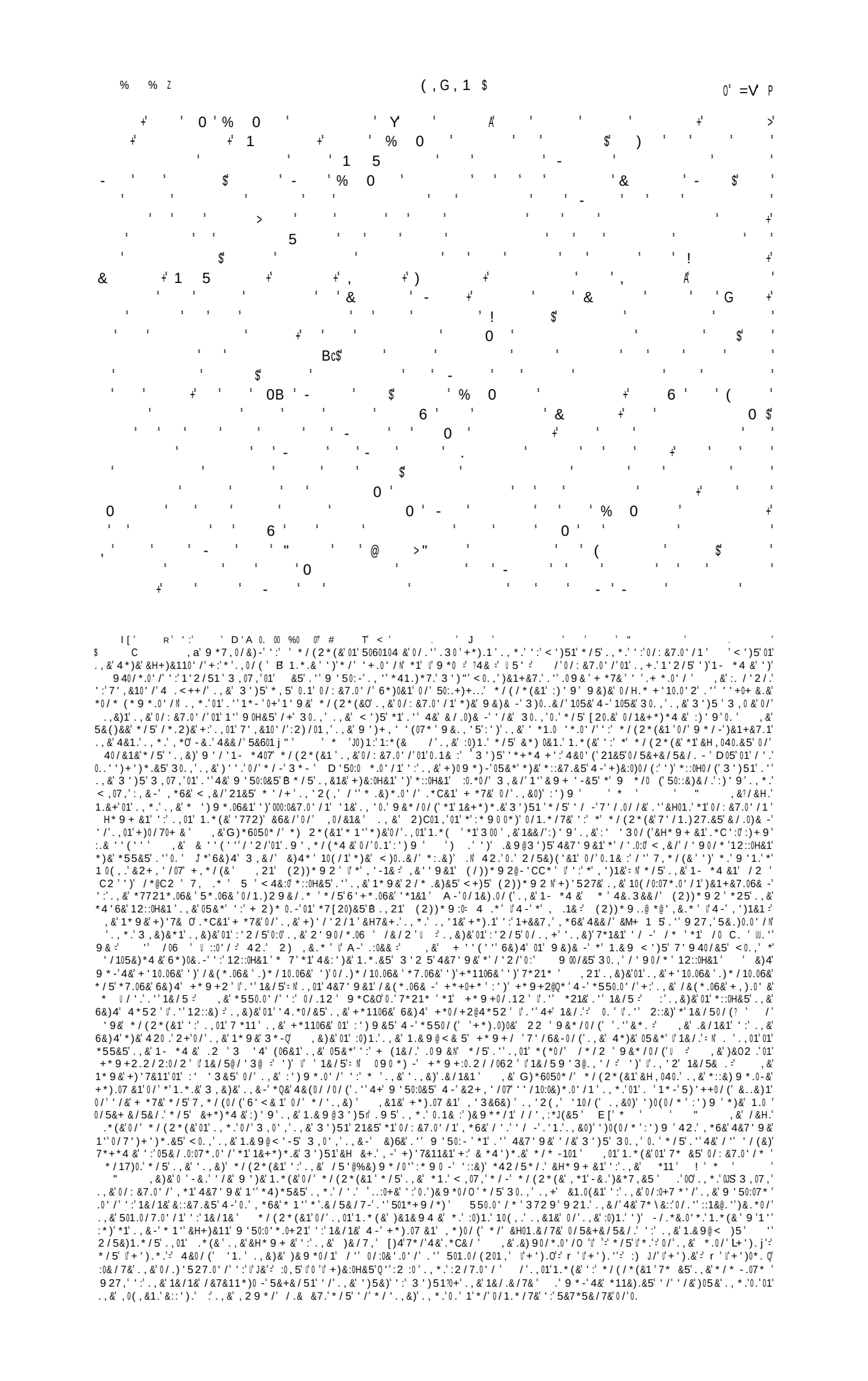


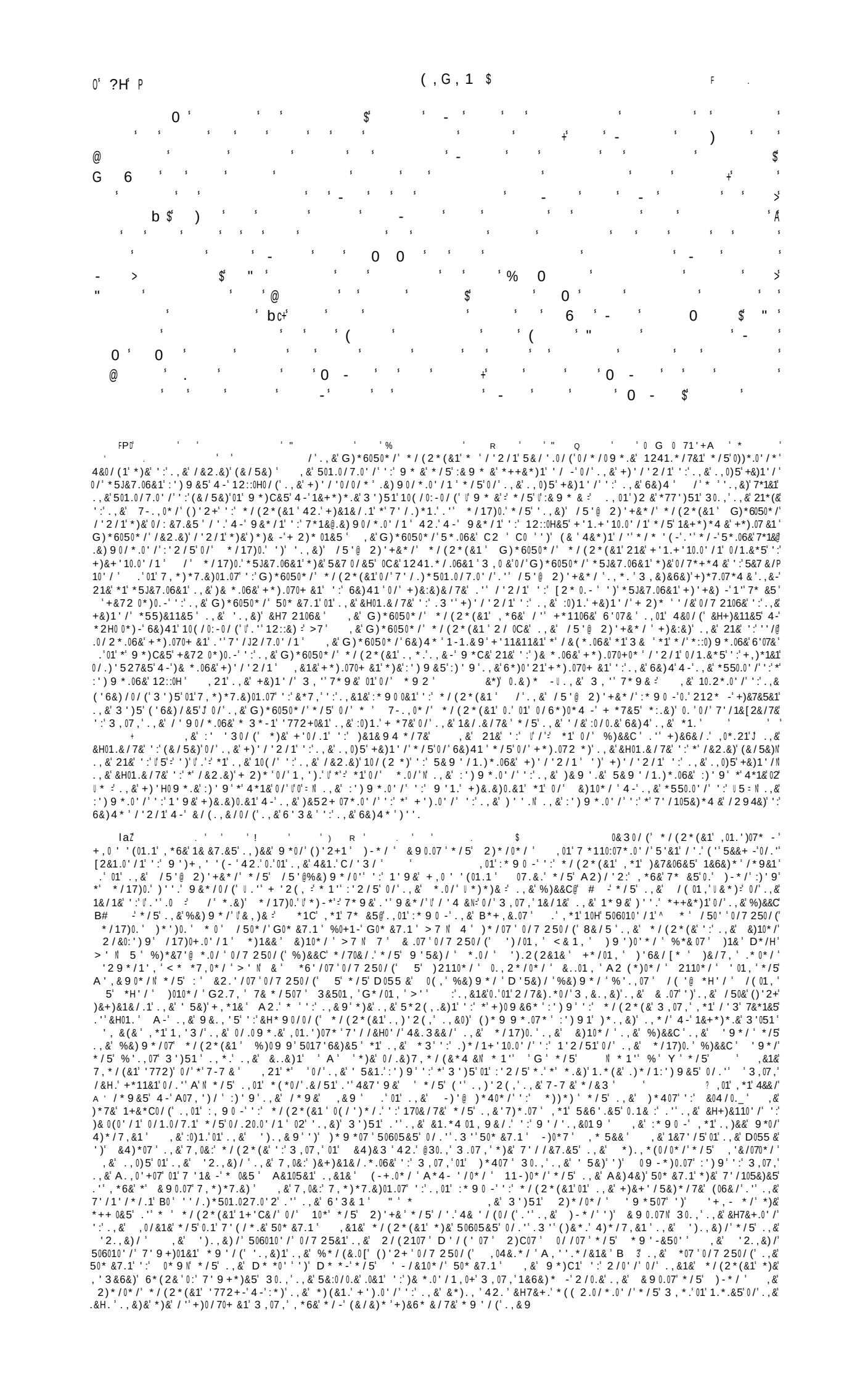


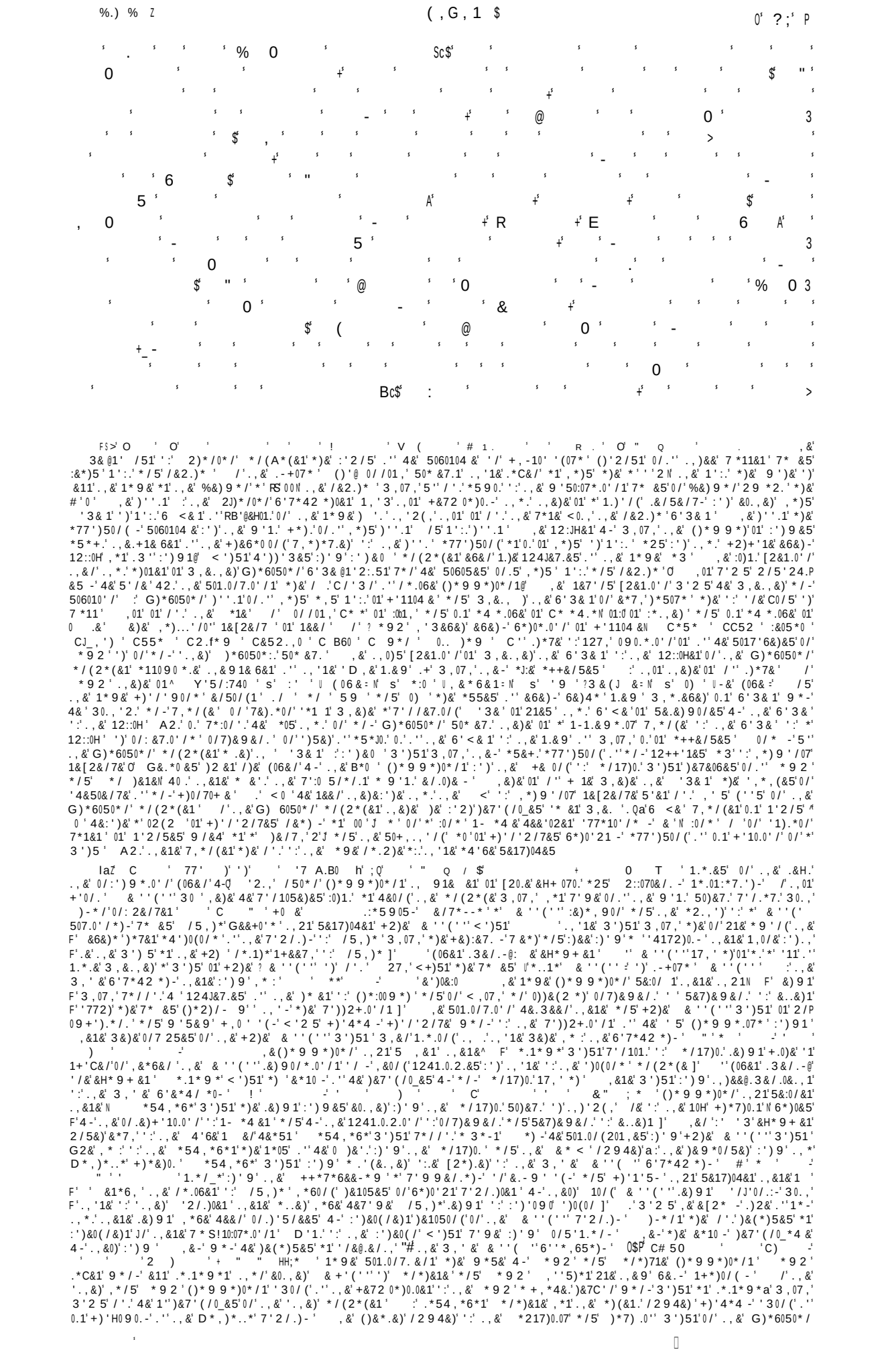


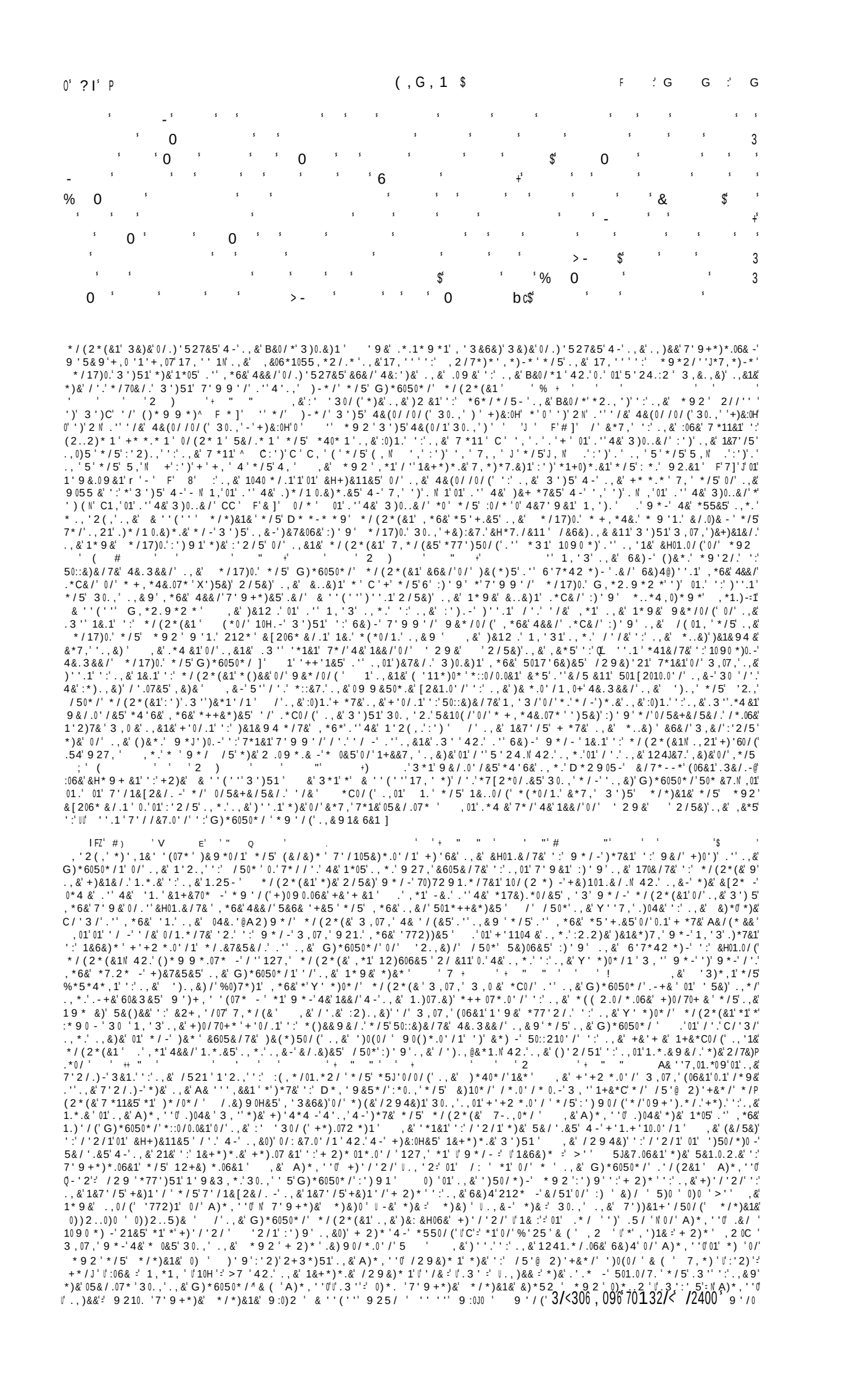


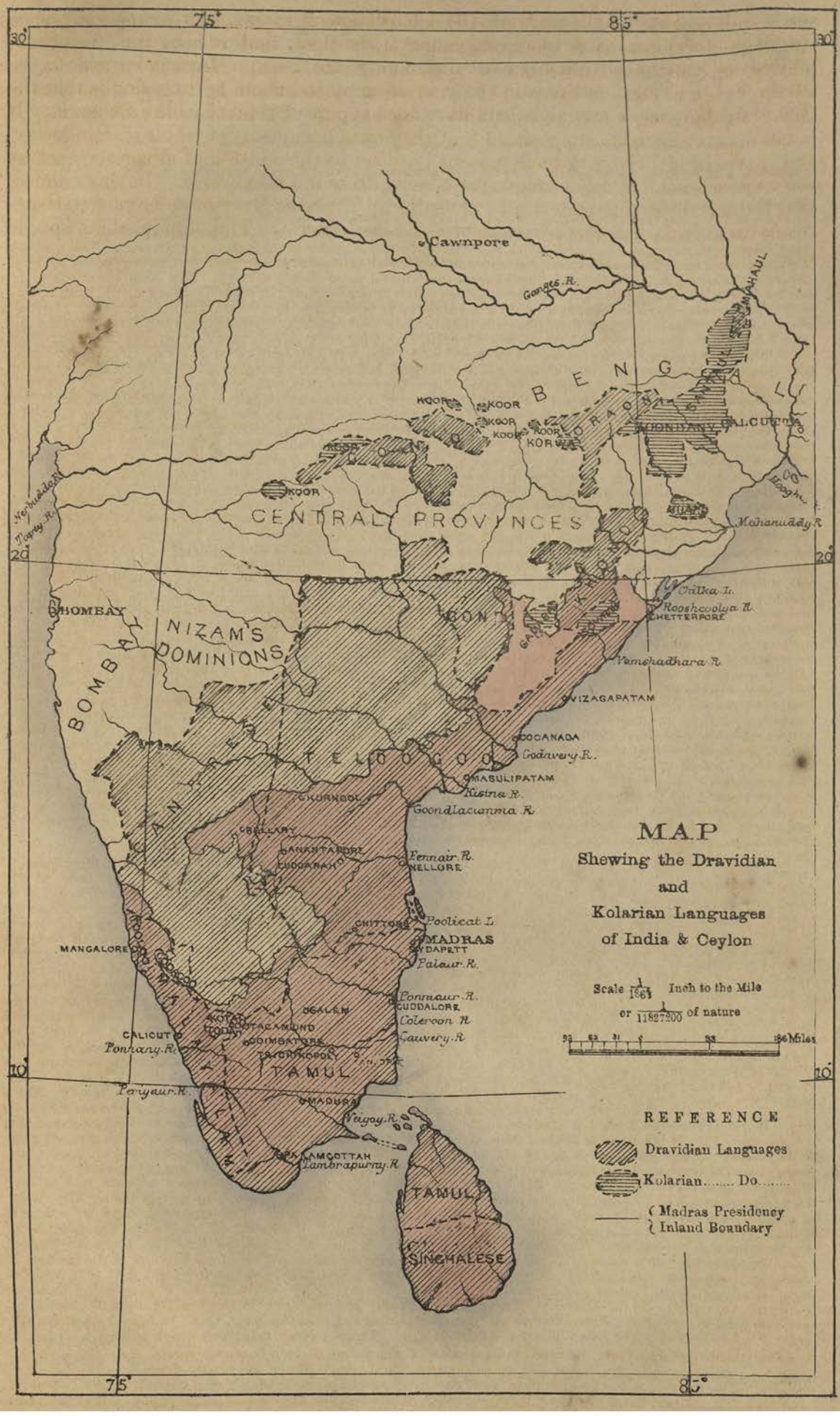






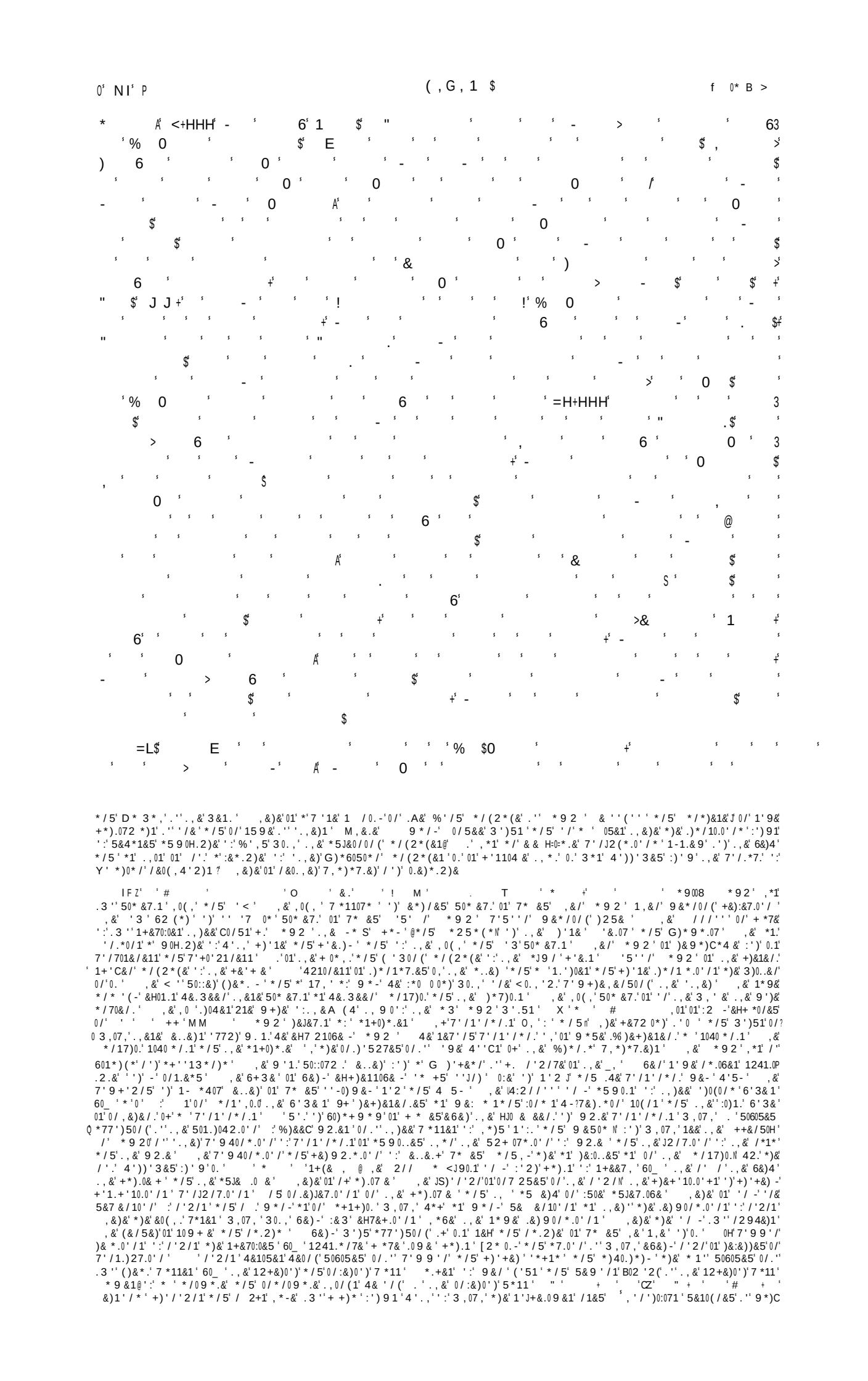





MAP
Shewing the Dravidian
and
Kolarian Languages
of India & Ceylon
Scale 1/1863 Inch to the Mile
or 1/11827200 of nature
93 62 31 0 93 186 Miles
REFERENCE
Dravidian Languages
Kolarian..... Do.....
Madras Presidency
Inland Boundary
Cawnpore
Ganges R.
BENGALEE
CALCUTTA
CENTRAL PROVINCES
BOMBAY
NIZAM'S DOMINIONS
BOMBAY CANARESE
TELOOGOO
MAHRATTA
GOND
GANJAM
ORISSA
VIZAGAPATAM
COCANADA
Godavery R.
MASULIPATAM
Kistna R.
KURNOOL
Goondlacumma R.
BELLARY
ANANTAPOOR
CUDDAPAH
Pennair R.
NELLORE
CHITTOOR
Poolicat L.
MADRAS
VYDAPETT
Palaur R.
MANGALORE
Ponnaur R.
CUDDALORE
Coleroon R.
Cauvery R.
SALEM
COIMBATORE
TANJORE
TRICHINOPOLY
MADURA
Veigay R.
RAMNAD
Lambrapurny R.
TAMUL
SINGHALESE
CALICUT
Ponnany R.
Periyaur R.
Vamshadhara R.
Chilka L.
Rooshcoolya R.
CHETTERPORE
Mahanuddy R.
Nerbudda R.
Tapty R.
KOOR
KOND
KOLE
KOTA
TODA
KOTACAMUND

MAP
Shewing Distribution of
Dravidian Alphabets
Down to 1550 A. D.
Scale 1/120th Inch to the Mile
or 1/253600 of nature
60 30 0 60 120 180 MILES
7 5° 8 0° 8 5°
20° 15° 10°
CALINGA
VENGY
Coringa
Godavery R.
Amravatty
Kistna R.
Vijiaruggur
Pennair R.
Poolicat
Canchepooram
Mavallipore
Palaur R.
CHOLA
PANDYA
CHERA
Mangalore
Caroor
Warriore
Coleroon R.
Coavery R.
Tanjore
Granganore
Cochin
Madura
Veigay R.
Quilon
Korkay
Tambrapurny R.
LANKA
REFERENCE
Old Vattezhoottoo alphabet
Southern boundary of Hala-Cannada & old Teloogoo alphabets
Western boundary of Grantha & Tamul alphabets
Eastern boundary of Tooloo & Malayalam alphabets

MAP
Shewing the Languages prevailing in the different Revenue Districts or parts of such.
Scale 1/100th Inch to the Mile
or 1/6336000 of nature
50 0 50 100 150 MILES
REFERENCE
A Teloogoo
B Canarese
C Canarese & Teloogoo
D Tamul
E Malayalam
CENTRAL PROVINCES
BENGAL
KHOND
SOWRAH
ORIYAH
TELOOGOO
GODAVERY
Roosheelya R.
Vamshadhara R.
Langoolya R.
NIZAM'S DOMINIONS
VIZACAPATAM
Mouths of the Godavery R.
Mouths of the Kistna R.
Goondlacumma R.
Pennair R.
BOMBAY
CANARESE
MYSORE
TOOLOO
MALAYALAM
TAMUL
Palaur R.
Ponnaur R.
Vellaur R.
Coleroon R.
Cauvery R.
Ponnany R.
Perriyaur R.
Vergay R.
Tambrapurny R.
CEYLON
LACCADIVE ISLANDS
MALDIVE ISLANDS
REFERENCE
1 ANANTAPORE
2 ARCOT NORTH
3 ARCOT SOUTH
4 BELLARY
5 CANARA SOUTH
6 CHINGLEPUT
7 COCHIN
8 COIMBATORE
9 CUDDAPAH
10 CANJAM
11 GODAVERY
12 KISTNA
13 KURNOOL
14 MADRAS
15 MADURA
16 MALABAR
17 NEILGHERRY
18 NELLORE
19 SALEM
20 TANJORE
21 TINNEVELLY
22 TRAVANCORE
23 TRICHINOPOLY
24 VIZAGAPATAM
District Boundary
Portion of District
Scale 1/320th Inch to the Mile or 1/20275200 of nature



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- ' ' ' ' ' ' 6 ' ' ' $' F $' +' " $

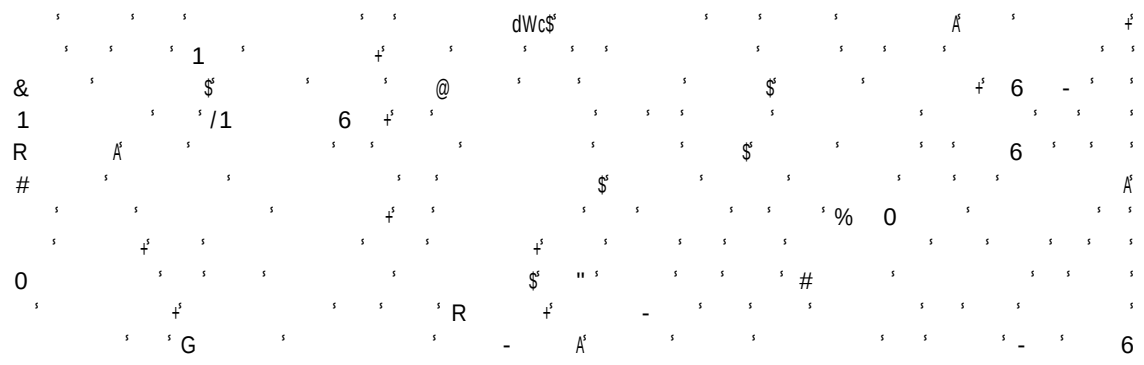
12+&)0')0.-'0/'. ,&'+&)1'/'.''3 ,'9'. ,&-'*)&'*55)&11&5' &)41'21&5' 30.,'127,' /'90/*.06&1'7,*/(&'.,&0)'.&)90/*.0'/1'*77')50/(-' */' '4&7'9&1' >9''')' 5/(* '0.&)* -'Q3&'Q 3,&/'*'+&)1'/'1+&*C1''.' ,09 1& :' 30.,' 50(/0.-' 0 ','2'4&7'9&1' 0)'')' 9 (* 'h&'h'2'3,&/'*/'.,&)'+&)1'/'01'*55)&11&5'+'0.& -''))'&1+&7.:2 -' 6*/ &'*/5' 6* ',&'4&7'9&' 6*)''))' 6*)(* ',&-'3,&/'*'.,0)5'+&)1'/'01')&:&))&5'.'')&1+&7.:2 -' ,&)&'01'*/'.,&)'+&72 0*)0.-'0/'.,&'21&''.:'.,&' + 2)*'/*9'*/5' /*/(* '*9'0/7 25&1'4'.,'1+&*C&)'*/5',&*)&)N *1'0/'.,&'1&/.&/7&'if 3&'*)&'*'9&/ */(*'&H7 25&1'.,'1&'1+'C&/'.''*/5'01'.,&'+)'+&)'7'))& *.06&''.' 0/(* '-&' !'* ' + ,&':' '30/(' 01'*' 01.''.:'.,& *92'/29&)*1' 1,'30/(' 3,&)&' .,&-'*()&&'30.,'.,&' %)&&C'*/5

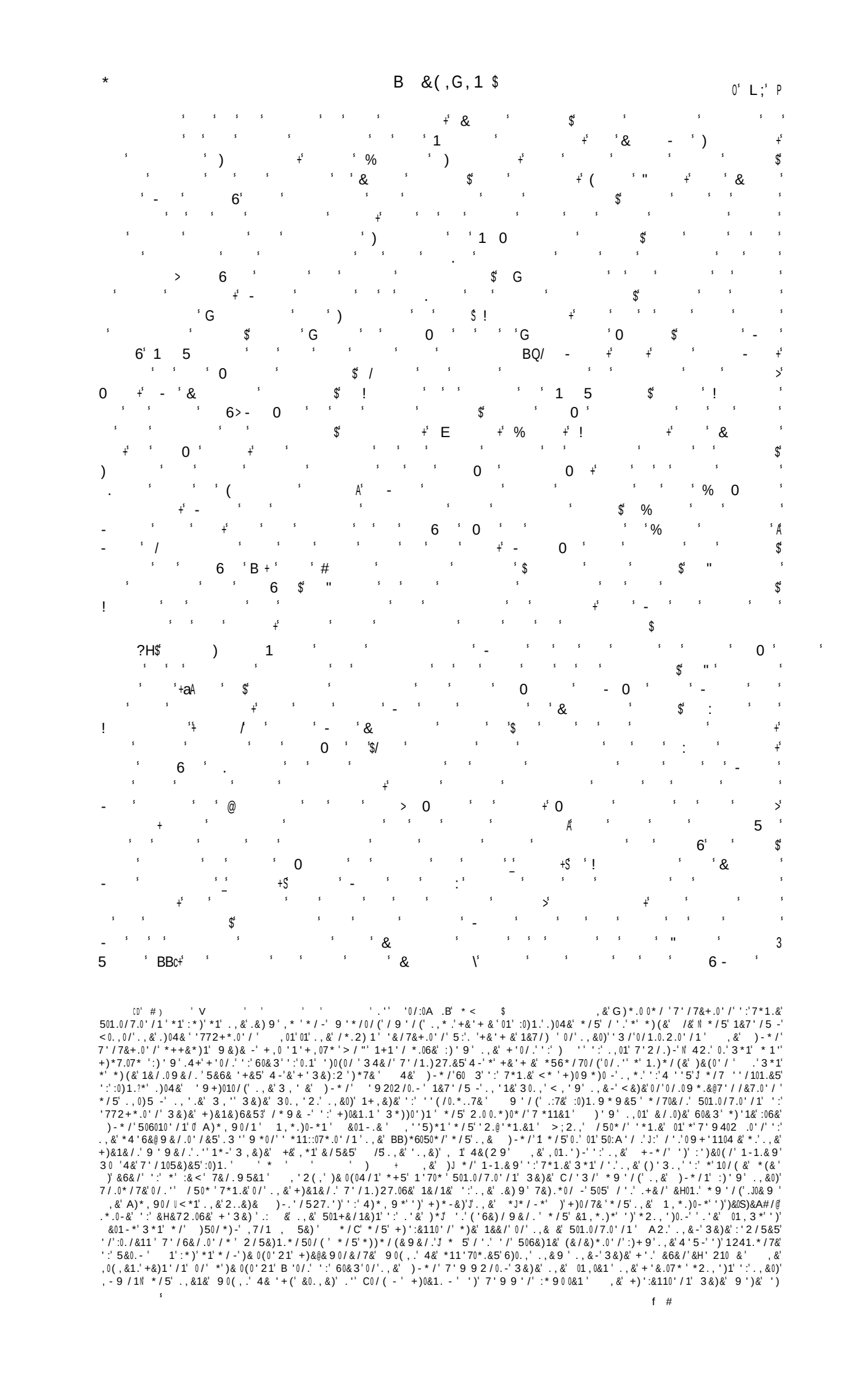
/17)0.^ /)2''')')2'r' /&' &-' A/5*'r' 3''00&'' D00/)2'r^' ,)&&')+&))' <B' ')?' :0/(2

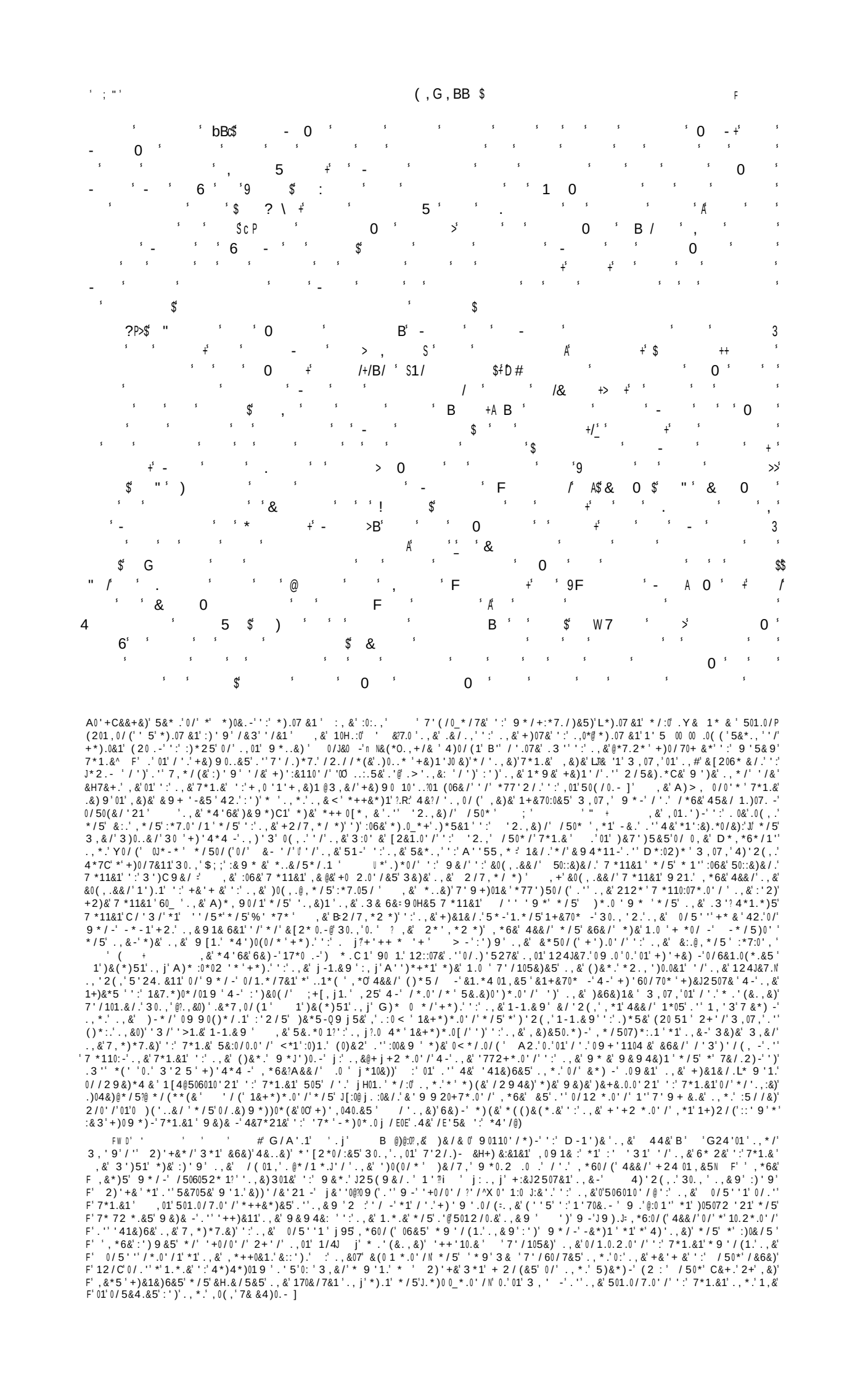
r' '2)'N' 0/52'r' 06&')2'r' 0HN' _,2'r' &6&/'N' ..2'r' 0(,.''K7). ' /4*.,2 r' 0/&N' *..2'r'?&/' #'*' ,&' *92'6&)4'01'/'.'1'' 7'9+&H' *1'.,&' */17)0.' .'01'.&)9&5'60/*-'*7.0'/N*/5'01'50605&5'0/.''.,)&&'+*).1'60_'.,&')'.',&')'.'.,&'.&)90/*.0'/'0/507*.0/('+&)1'/'')'.,0/(N*/7.,&'+*).07&'')'0/.&)9&50*.&'*2(9&/.'1,'30/('.09&' ,&)&'01'*/'&H*7.'7'))&1+'/5&/7&'0/'.,&'.&)90/*.0''/'4&.3&&/'.,&'5&9'/1.)*.06&'+)''/'2/1'*/5'.,&'.,0)5'+&)1'/1'':'6&)41' '*9/'6&)4'+'11&11&1''/-'.,)&&'')0(0/*'9''51'60_'.,&'0/507*.06&'09+&)*.06&'*/5'.,&'0/:0/0.06&' :0&''+.*.06&'*/5'124J2/7.06&'*)&'*55&5' ,&'*1.'.,)&&'*)&':')9&5'50)&7.-':)'9'.,&'0/50'*.06&'0/'6*)0'21'3*-1' ,&'09+&)*.06&'01'(&/&)*-'.,)0/507*.06&',*1'.,)&&'.&/1&1':')9&5'/'*'&)-'1099+&'9&.,'5'*/5'&*7,'.&+1&',*1'.,)&&'+&)1'+1N'*+5'.,&'(&+5&)1'*)&'0+50'*.&5'4-'7,*)*7.&)01.07'.&)90/*.0'+1'0/'.,&'.,0)5'+&)W'+'10/(2*)'*/5'/&:0.&)'+2)*' ,&'10H'0/705&/.1''':'.,&'6&)4'*)&'.,&'*(&/.'0/1.)29&/.'+*7&'*7.0'/'.09&'*/5'4J&7.' ,01'+*).''':'*92'()*99*)'01'10/(2*)-'109+&'*/5'7&*)' 6&)41',*6&'*'7*21*.06&':')9'9*5&':)'9'.,&':2.2)&'0/507*.06&' ,21':)'9'/*0J*++&/'*'30'3*C'*)&':)9&5'.,&':' 30/('7*21*.06&1N *5*++0CC0)*'*'7*21&'.''3*CN *7J*++CC0+>-'.,'2''*21&1.'.''3*CN Y:*5*++0CC0),/',&'7*21&1'.''3*C' ,&)&'01'*1''*'5'24&'')'&eH'7*21*'6&)4'42.'1&5'9'21&5' ,&' *92'*/(2*(&',*1'*'/&(*.06&'6&)4'3,07,'30.,'6&)41'.,&'5&:&7.06&')'*2H00*)-'3',51'*)&'.'',&'7'/105&)&5@' ,&1&'*)&'.,&'+*).070+&1'*/5'(&)2/51'3,07,'*)&'7'/1.*/.-'21&5'0/' *92'1&/.&/7&1'*).070+&1'12++-'.,&'+*7&':')&*.06&'+)'/'2/1'3,07,'&H7&+.'0/'.,&'0/.&))'(*.06&':')91'5''/'.'&H01.'0/' *9/N*1'*6*/'.*/5*'++++9'0.,2'F'.,01'01'.,&'9'/&-'3,07,',&'(*6&]' */5*'01'*'+*).070+&'N*/5'.,&)&'01'/''1241.*/.06&''):0/0.&'6&)4'0/'.,&'1&/.&/7&' ,&'6&)4*'+*).070+&':')(&)//5'01'*/*'('21' 7'9+'2/5'+&):&7.'+*).070+&'0/' /(01,'*1'6*/52'+'/,/'F',*60/('7'9&',&'0'('/&]' '*' ; ' +; ,&' 60/*0CC2)0++2''):1-:04'0''<')5'01'+&72 0*)'.''*92' ,&)&'01'/''.,&)'*/(2*(&'0/'3,07,'0.'&H01.1' .'&H,04 0.1'0/'*'1.)0C0/('0(,'.,''170&/.0:07')&:0/&9W/.'':'.,&',0(,'50*&7.' ++& *.06&1'3,07,'*)&'5&70/&5'0C&'7'99'/'/'2/1'*4'2/5'0/'?.,&'*,*(&' -94'07'3')51'*)&'1'93&,*.'50::&)&/.N.4&-'*6&'.,&':')0/'*/5')&(09&/'':'4'.,'/'2/1'*/5'6&)41' 1'0/''..'/'30.,' :4&)'*/(2*(&1'.,&'6&)4*'/'2/'0/' *:+2'01'0*4&':''0/:0&'.0'/N 1''4-'*')&J,*)C*4&'0/.&)7,*/(&':'.,&'+)'+&).0&1'+&72 0*)'.''7:0 &)&J.'+*).1''':'1+&&7,'0.1'1-94'07'3')51'*)&'0*4&'.+'4&' '/J2(*.&5'*1'6&)41' :'.,&'10H'0/705&/.1'.':'.,&'6&)4'*)&*5-'&/29&)*.&5'.,&'1-94'07'3')5''')'/'90/*'5&)06*.06&'0/507*.&1' /-'.,&':0)1.'60_'.,&'*(&/.''*/5'01'7'/J2(*.&5'.,)'2(,'+*7,'+&)1'/'(&/5&)'*/5' /294&)N42.'01'&/.0)&-'0/5&:0/0.&'*1'.''9''5'.&/1&'B'.'01'&9+'-&5'9'1.-'0/',0(,'*92'*/5'01'212*-':+)9&5':)'9'*')''.'')'+)0900.06&'/2/' 1&5'7,0&:-'*1'*,'*5J&7.06&'.'9*-'*1''4&':')9&5':)'9'*/-'2/' ,21':)'9

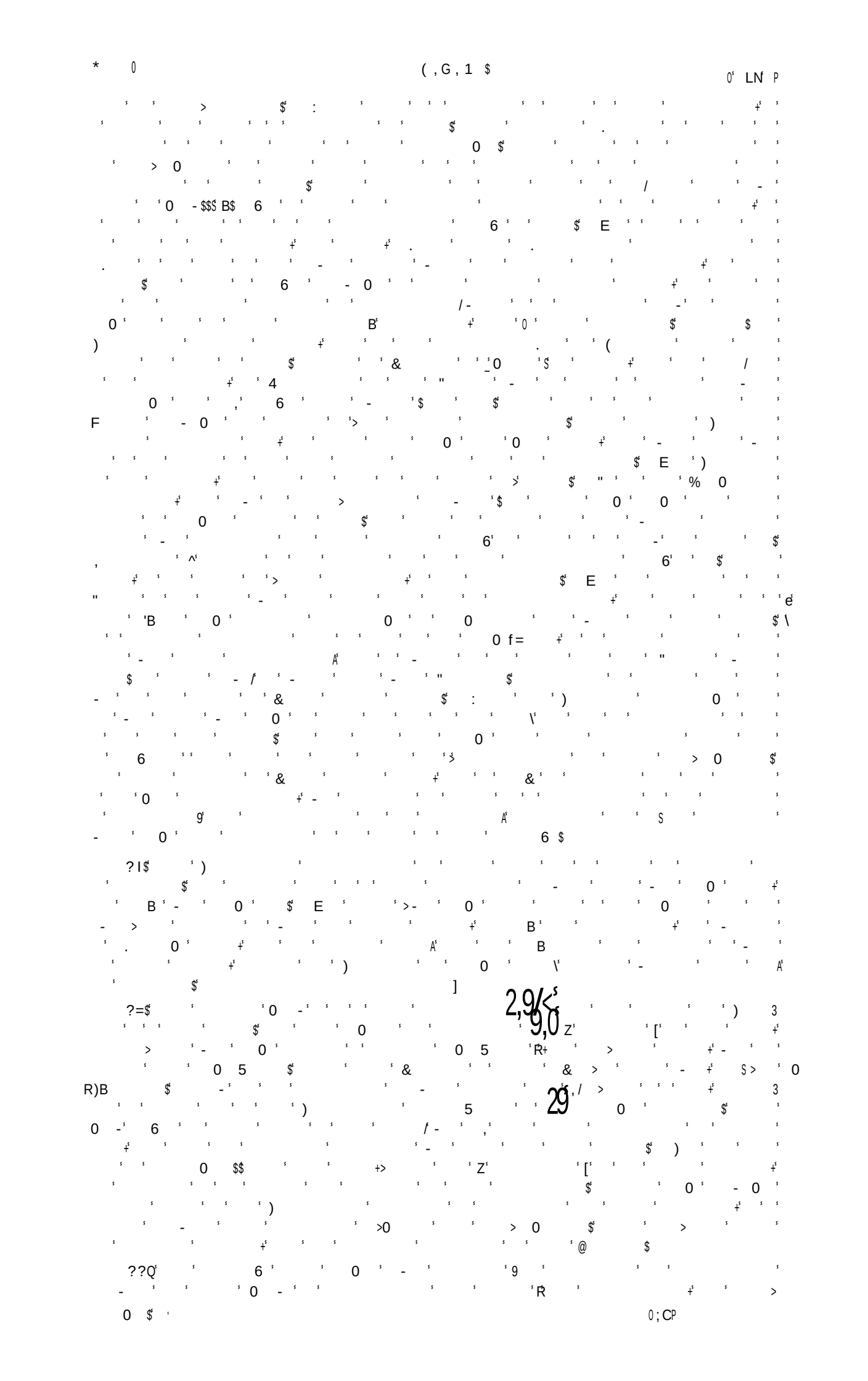
' ! ' 6 2@0 ; < 1 <9, 09<> ' 0 : 082/ 29 829 ?2 <6 KWM 077?35 9 ' 29 2/<2 ' ,4 < 0985 /<3/<6<9,2, ;<6 2/< ,4 < 0=/24 29> 2>2@24 0: 29F21 ' KAME 29> 0: 29 /529 829 ?2 < 077?35 9 ' 29 2/<2 ' ,4 < 0/ 524 6 ,4 < 0985 /<3/<6<9,2, ;<KXM

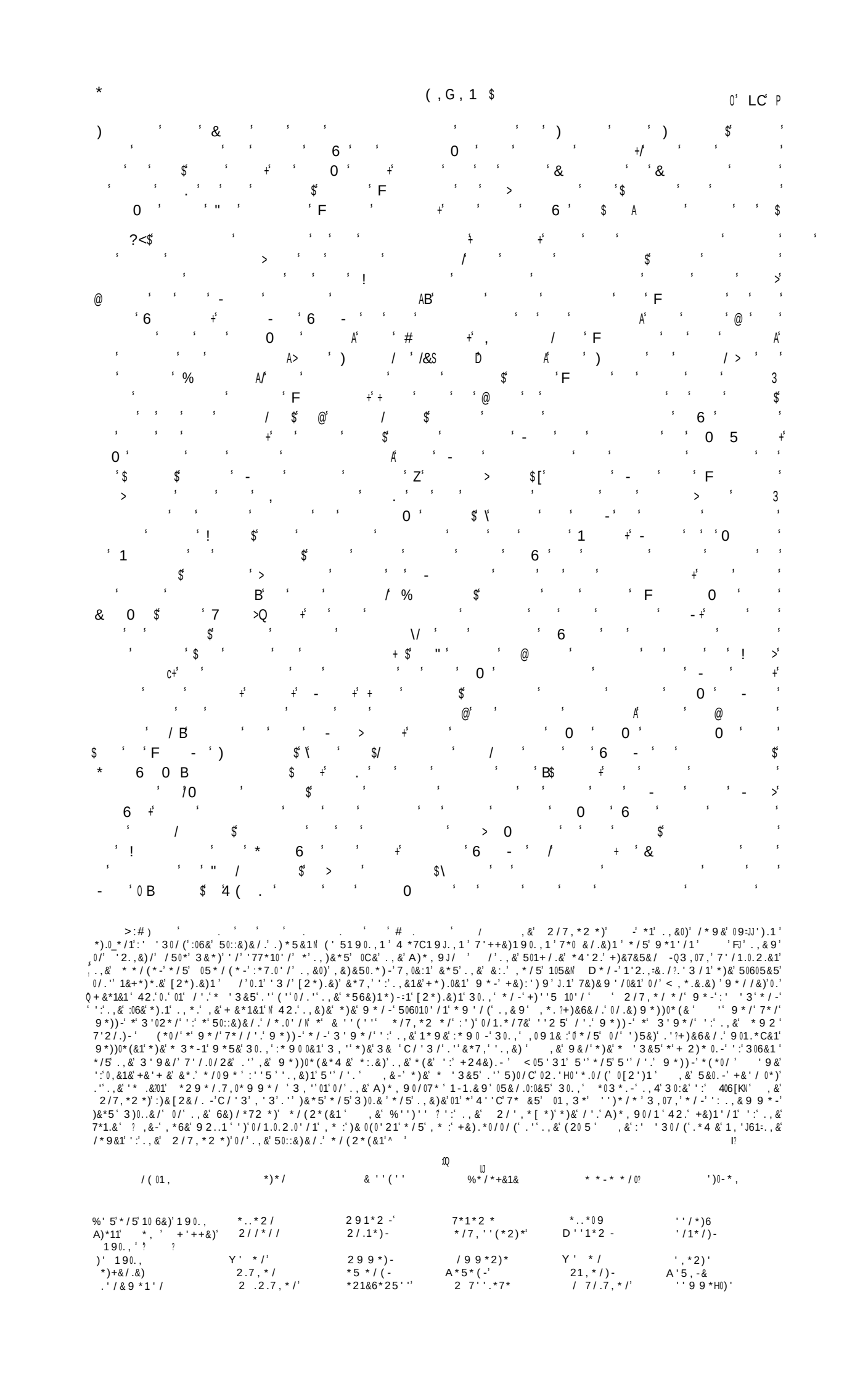
, &06* ' 01' * 1 '' 7 ' 9 /0&9 ')*.&5' 4 -' / 2 9 &)' H01' , - 9 / 1 ' 3 , 07 , ' *)&' 0 / 7 / 5&5' 0 /' . , &' */ * -0)*+0@*4*/5 , *9 ' . , &' 4 ' 'C' ' :' " ; ; ;' , - 9 / 1 ' :.&)' *' ' / (' +&)0 ' 5 ' ' :' 0 / * 7.060.-'+) ' 4*4 -' / &*) -' .3 '' 7&/ . /)0&1' . , &)&' 3*1' *(*0/' *' 0.&)*)-') &606* ' , &' 9 ' 1.' 7& &4)*.&5'+ ' &.' ' :' . , 01'+&)0 ' 5' 3*1' . , 06&&)*)*9 *' */50-*/ ' *' C0/ (' ' :' . , &' & &6&/ . , '7&/ .2)-' 3 , '1&')&*' / *9&' 3*1' * *4 , *' G&6*' &' 3) ' . &' . , &' F' &01 , *5*9] ' *' 6&)10' / ' ' :' . , &' 1. ')-' ' :' * *' */5' . , &' F' */107*2/5*9] ' 01' 4&1. ' 3 ')C' 01' *' 19 * ' +' &9 ' 7* &5' . , &' F' &. .06&)(*-] ')' 4*4 -' 9 '1.' ' :' . , &' 9 &507*' .)&*.01&1' 3&)&' 7 ' 9 +' 1&5' 0 /' . , 01' +&)0 ' 5 ' */5' *1'' 9 '1.' ' :' . , &' 7 ' 9 +' 10.0 ' / 1' 0 / 7 25&5' 0 /' . , &' 01.' ' :' *9 2 ' F' D 0 / ')' '&.1] ' , &' 7 ' 9 +' 10.0 ' / (' 1' ' :' . , &' 1' @7* &5' 055 , *)' 17 , ' ' ' 9 *-' 4&' + *7&5' *.' *' *.&)' 5*.&' , &' 9 '1.' 1.)0C0 / (' 01' . , &' F' , 06*6*2 ' -*9 ']' ')' F' < ')51' *4 '2.' %' 5] ' , &' B&120.' 9 0110 ' / *)-' ' 4&). ' 5&' '4 0 ' 3 , '' 06&5' */5' +)&*7 , &5' *.' D*52)*' . ' 3 *)51' . , &' 7 ' 9 9&/7&9&/ . ' :' . , &' 1&6&/ .&&/ . , '7&/ .2)-' 3*1' *' 501.0/(201 , &5' *92' 17 , ' *)' 9 ' / (' , 01' 3 ')C1' 9*-' 4&' 9&/ .0' / &5' -*2/ '+*5&1 , *9' Y , *2/5*9' ⁄ A' 'C' ' :' +0)0.2*' /1.)27.0' / ' :ℕ *.-*6&5*71 , */*9' ⁄ , &' *.2)&' ' :' . , &')2&' &5*'-' J B&1' ' /*2. , *)7 , *)0.)*9' ⁄ 01.')-' ' :' B&1/1' ,)01.' :ℕ */5*' *92' */5').2(2&1&' 507.0' / *)-' G2)0/(' . , &' *1.' */5+)&1&/ . ' 7&/ . /)0&1' 3 , 07 , ' 9*-' 4&' 1.-&5' . , &' 9 '5&)/' +&)0' 5 ' 4' 'C1' . , '2 , ' (&/&)* -' ' :' 0 . . &' 6* 2&' *)&' &H7&&50/(-' /29&)' 21' 9 ' / (' . , &9' 9*-' 4&' 9&/.0' /&5' . , &' F')*4 , ' '10/(* && *, ']' *' .)*/1*.0' / ' ' :' . , &' */*)&1& ' */5' *' 19* '&. , 07*' .)&*.01&' 7* &5' . , &' F' &&.0/&)060*7*9] ' , &' .3 '' 7 , 0&:' +' &.1' ' :' . , 01' +&)0' 5' *)&' */*' 9*2/*6*)' */5' . , &' 7&4)*.&5' A&17 , 0' *' 90110' / *)-' +)0&1.' ' :' . , &' B&120.' ')5&)' 3 , '' *7[20)&5' */' &H.)*')50/*)-' C/' 3 &5(&' ' :' *92' *....//*..+0 &0-*2)' 9*-' *1'' 5&1&)6&' *' +*110/(' / ' .07&' A&17 , 0-1' 7 , 0&:' +' &.07*' 3 ')C' 01' . , &' &94*26*/-' &' *1'' 3)' .&' 1&6&)*' 90/')' +' &91' ' :' ()&*.' 9&)0.' 127 , ' *1' . , &' Y0..*0)0-*99*2 -')' 0:&' ' :' \2&&/' *. , &)0/&' ' :').2(*' ℕ . , &' 0)' , */6*' ')7*' 94*9 -' >' 9 ' / (' , 01' +)' 1&' 3')C1' 9*-' 4&' 9&/.0' /&5' . , &' 850-*)' ' ' *9 -' *' 1&)0&1' ' :' 7 ' / 10&)*.0' /1' . ' 27 , 0/(' . , &' 52.0&1' ' :' ' /&' 7*&5' . ' *&' */70&/.' */(2*(&1' .' 9*-' &94'5-' 1' 9&' ' :' . , &' +&72 0*)0.0&1' ' :' . , &' */70&/.' */(2*(&' 1+' C&/' *.' . , &' .09&' 3 , &/' 0.' 3*1' +)' 527&5' 42.' 0.' 01' / ' .' 7' / 105&)&5' . '' 4&' . '' */-' ()&*.' &H.&/.' .-+07*' ' :' 0.' , &' 9 '5&)/' *92' .* C&5' 4-' . , &' 62 (*)' 01' +)' 4*4 -' 9')&' /&*)' . '' */70&/.' *92' . , */' 01' . , &' , &/' *92' +' &.07*' 1.-&' /' . , &' +)&1&/.' 7&/.2)-' *' 1'2/5' +)' 1&' 1.-&' :0)1.' *++&*)&5' , 01' 01' 0/' . , &' '5' '/' *92' ' :' . , &' ()*99*)0*/1' . , *.' 01' . '' 1*-' . , &' 7' 99' /' ')' 72))&/.' /(2&')&J&7.&5' 4-' . , &' +' &.1' , &')&+2.&5' ')0(0/*.')' :' . , &' 1.-&' 01' *2/5*6*' '-*' D' ' 5& 0*)' . , &' *2. , ')' ' :' . , &' *92' +)' 1&' 6&)10' / ' ' :' . , &' 2/7 , *.*/.)*9 ' .' 01' 5&1&)60/(' ' :' / ' .07&' . , *.' *0.&)*P .0' / ' 01' *' :&*.2)&' ' :' G)*6050*/' +' &.)-' *1' 0.' 01' ' :' < &1 , ' , &' 7 , 0&:' +&72 0*)0.-' ' :' G)*6050*/') , -9&' 7 ' /101.1' 0/' 0.1' 1&*.' 4&0/(' *.' . , &' 4&(0/ / 0/(' ' :' . , &' 0/&' . , &' 7 ' /1 ' / *./.' 3 , 07 , ' 0/.&)6&/&1' 4&.3&&/' . , &' :0)1.' .3 ''6' 3&1' 0/' *' 0/&') , -90/(' 30 . , ' */ ' . , &)' 7 ' /1 ' /*/.' 1090*)-' +*7&5' <&@C/' 3/' 4 ' C1' 4-' :')&0(/&)1' 0/' , &/' *92' *)&^ F' , &/' *92' %)*99*)' :' ' B' A&17 , 0' . , &' B&120.' $" " ' .)*/1*.&5' 4-' A' %' A*40/(.' /' ℕ]' F' *601' 124 090')01' *92 07 0' 050' 9*.01]' +24 01 , &5' *.')*/[2&4*)' 0/' $#' /5' 0/' '5' ' /' *92^ F' %)*99*0)&')*/[*01&@ *9 '2&]' +24 01 , &5' *.' ' /507 , &))-' 0/' # ' 4-' *')&/7 , ' +)0&1.' . , &' 44&' G/+201ℕ F' 2.0/&' :' *92' %)*99*)'] ' :)' 9' . , &' A04 0' . , &7*' *92 07*' ' :' ; ' %)*2 ℕ F' *92' G07.0' / *)-']' 4-' G)' D ' <0/1 ' 3 ' +24 01 , &5' *.' D*5)*1' 0/' # ℕ */5' F' G07.0' / ' /*0)&')*/ *01@ *9 '2 ' +*)' 5&2H' D011 0' / *0)&1' +' 1.' [2&1]' +24 01 , &5' *.' ' /507 , &))-' , &' *..&)' 01' . , &' 4&1.' 3 ')C' ' :' 0.1' C0/5' , &)&' 01' / '' 21&:2' /(01 , @ *92' G07.0' / *)-' , *.' ' :' . , &' B*::/*' 90110' / ' 0/' &-' / ' 01' . , &' 4&1.' 42.' 0.' 01' , 0(, -' +&5*/.07' */5' 17*)&+)&1&/.*.06&' :' '2.,' /50*/' *92' , &' &6' ' &)706*' , *1'+24 01 , &5' *' 19*' /(01 , @ *92' G07.0' / *)-' G)' % ' '+&-1' 50::&)&/.' 9*/2*1*)&' :' +)*7.07*' 6*2&' , &' 4&1.')&*50/('4' 'C' 01' A&17 , 0-1' F' .')-' ' :' %' ')' ' *)*@' 9*2).*/]' 3 , 07 , ' , *1' *++&*)&5' 0/' /29&)' 21' &50.0' / 1' *.' ' /507 , &))-' *92' , *1' */' 09+').*/.' ,)01.0*/' 0.&)*.2)&' *.' . , &' , &*5' ' :' 3 , 07 , ' 9*-' 4&' +*7&5' . , &' .)*/1*.0' / ' :' . , &' A04 &' */5' ' :' # ' 7 , 2)7 , ' , -9/1' , &' 4&1.' .)*/1*.0' / ' :' . , &' A04 &' 01' . , *.' ' :' . , &' D0110' / *)-' *4)0'021' 42.' . , &)&' *1' ' . , &)&' *)&' 1&6&)*' *92' /&31+*+&)1' */5' */09 9&/1&' [2*/.0.-' ' :' *92' .)*7.1' , &' ,)01.0*/ &)/*72*)' 527*.0' / ' 70&.-'+)0/.&5' 4&.3&&/' # ' */5' $' ; ; ' *92' 17 , ' '@4' 'C1' */5' . , &)' 3')C1' +)0/.&5' 52)0/(' . , &18' -&*)1' 30 . , '2.' 7' 2/.0/(' . , &' +)' 527.0' / 1' :' . , &' A04 &' '70&.-' *9' 2/.' . '' 9')&' . , */' ' ' 90 0' / ' 7' +0&1' *' 927 , ' ()&*.&)' /29 4&)' . , */' */-' . , &)' */(2*(&' 02' /50*' 7*/' 7*09' ' ! , &' &*) 0&1' 3)0.&)' / ' &' ' (' ' ()*99*)' 1*05' . '' , *6&' 4&&/' *' 1*(&' 7*&5' */6*' 060/(' *. ' , &' 7' 2)' ' :' *' C0/(' /5 ,)*' '-*' ' /' . , &' 4*/C1' ' :' . , &' %' 5*6&)-' , &' 5*.&' :' . , 01' /5 ,)*' '-*' 01' 2/C/' 3/' */5' , 01' / *9&' 5' &1' / ' . ' 772)' 0/' */-' 0/17)0+.0' /' ')' 01.' &' 01' , ' 3&6&)' 3')1 , 0++&5' *1' *' 5&0.-' *.' , 07*7' &' , 01' 3')C' 0:' 0.' &6&)' &H01.&5' 01' /' 3' '1.' */5' . , &' 5&1.' &H.*/.' 3')C' /' &' ' (' ' ()*99*)' 30.&/' 0/' */17)0.' 01' . , &' 3')C' ' :' *' A)*, 90/'7*&5' */ /*-*' A , *.' 0/' . , &')&0(/' :' 01 , /' '6*)5 , */*' ' :' . , &' , *' 'C-*' 5-/*1.-' 3 , '1&*)' 4*4&' 5*.&' 01' . , &' .3&:. , '7&/.2)-' G' , &' 1*9&' */ /*--*' 01' 1*05' . '' 4&' . , &' *2. , ')' ' :' *' +)' .0' / ' ' :' . , &' &' ' (' ' 6&)10' / ' ' :' . , &' D*, *4 , *)*. ' 3 , 07 , ' 01' ' 'C&5' 2+' / ' *1' . , &' 1.*/5*)5' ' :' &' ' (' ' +' &.)-' <0. , ' . , &' &H7&+.0' / ' ' :' *' :&3' 3')C1' 77*/+'1&5' .' 3*)51' . , &' &/5' ' :' . , &' .3&:. , '7&/.2)-' /&*) -' * ' . , &' &' ' (' ' 3')C1' / ' 3' &H.*/.' 3&)&' 3)0..&/' 0/' . , &' :' 2).&&/. , '*/5' 1241&[2&/.' 7&/.2)0&1' ' *)(&' 7' &7.0' / ' ' :' +' +2*)' *+ , ')0191' / ')&0(0' 21' */5' 9 ')*' 124J&7.1' *..)042.&5' . '' . , &' +&.' *29*2*' 5*.&' :)' 9' *4' 2.' . , &' 4&(0/ / 0/(' ' :' . , &' &0(. , &&/. , ' 7&/.2)-' 9' / (' :')&0(/&)1' 3 , ' , *6&' 7' /.)042.&5' . '' & ' ' (' ' ' 0.&)*.' &' 9*-' 4&' 9&/.0' /&5' D&11)1' *9+4& ' A)' 3/' D')01' */5' ' . , &)1' , &' :0)1.' .3 '' /*9&5' , *6&' +24 01 , &5' & ' ' (' ' ()*99*)1' */5' 507.0' / *)0&1' = , &')0(0/*.')1' ' :' */*)&1&' 0.&)*.2)&' 3&)&' . , &' B*0/1' ')' B&0/*1' , &0)' 3')C1' +)' 4*4 -' 5*.&' 4*7C' *1' :*)' *1' . , &' :' 2). , '7&/.2)-' G' , &' :' 30/(' *)&' 1' 9&' ' :' . , &' 170&/.0:07' B&0/*' 3')C1' 0/' */*)&1&' *2(*62)9*-1' , */5*1' ')' +)' 1' 5-ℕ . , 01' 01' . , &' / -' 1.*/5*)5' 3')C' / ' +)' 1' 5-0/' */*)&1&' *2(*62)9*-1' 0(*/.' ' *' */17)0.@ */*)&1&' '7*42*)-' *3*-1' *1*)*./*27*)*' .)&*.01&' /' +' &.)-' *5' 5)*9*.07' 7' 9+' 10.0' / ' +)' :&11&5-'4*1&5' /' */(*62)9*' &9*7 , */5)*' /5' . , &)1' Y&1*6*-1' , *45*9*/05*)+*/*')(0)*9*)' :' . , &' */*)&1&' */(2*(&' 0.&)*-' J&3&@90))')' :' 3')51-ℕ . , 01' 01' 7' 9+&.&' */5' *2. , ')0.*.06&' */5' 01' . , &' / -' .)2&1.*/5*)5' 3')C' / ' . ' 9&)&-' :')' . , &' */70&/.' */*)&1&' */(2*(&' 42.' *1' ' :')' *' . , &' /07&.0&1' ' :' . , &' +)&1&/.' :')9' Y&1*6*' ')' Y&10)*J*, ' 9*-' +&) , *+1' 4&' +*7&5' *4' 2.' $;' G' &' 3*1' . , &' 1' /' :' D*07*)J' ' /*' 01' 9' . , &)' 3*1' . , &' 5*2(, .&)' ' :' *' +' &.' 7*&5' ' 9*/' 4*2/*' *' .&*7 , &)' *9' /(' 1' 9&' 1.-)0-*' +&' +&' ' :' . , &' *5*6*')*7&' &' , 091&.-' 3*1' *' +&.' 4' 3&' *1' *' ()0 9 9*)0*/' &' , &)&' 3&)&' ()*99*)1' 4&:')&' . , &' B&J/*1' *)&' . , &' :' 30/(' *)&' 1' 9&' ' :' . , &' H&.&/.' Y&1*6*' 7' /12.&5' */0/-:1' */17)0.' ()*99*)' , &)+)0/70+*' 7' 99&/.*.')' :' . , 01' 3')C' 01' /*9&5' 01 , . ' ')*1*/J*--*' , &' :' 30/(' 3')51' , *6&' 4&&/' *55&5' 4-' 1' 9&' 17 , ' 0*1.' *.' . , &' &/5' :' &*7 , ' 7 , *+.&)' ^ F' -' 01' */' *))' 3' : ')' 5' 24.1' 7' /7&)/P 0/(' . , &' 3')51' 1+)2/(' :')' 9' . , &' 90/51' :' +&)1' /1' 6&)1&5' 0/' ()*99*)' *()&&*4&' */5' 3&@)&*5' +&)1' /1' *++)' 7 . ℕ 0.' 01' :)&&' :)' 9' 5&:070&/70&1' */5' , *1' 4&&/' &' 9+1&5' 4-' . , &' &H7&&/.' +' &.' Y&10)*J*, ' 3 , '' 01' *' . &*7 , &)' .''021.)2707' 0/' . , &' 7 , *)*7.&)01.071' ' :' */*)&1&']' A&105&1' . , &' , *45*9*/05*)+*/*' Y&1*6*' 3)' .&*' *' ⁄ ' , ' *+*2*7*' , *)0.)*' :')' , 01.')-' ' :' . , &' , ' *' C0/(1' ℕ *' ⁄)*4'5 , *7 , */5)*' :')' 9' ' /' :' C/' 3&5(&' *' +, 0' 1' +, 07*' .)&*.01&ℕ */5' *' ⁄ ' 4*5)*, */5' *' ⁄ Y0)*/.*:. , &1&.3' ' 4&0/(' 4' 'C1' /' ')*/0' ' .*&1' 9' /(' , 01' +)&5&7&11)1' 0/' . , &*)./' :' +' &.)-' Y&1*6*' 9&/.0' /1' . , &' :' 30/(' .&/^ %*J*(*' %' ' /*/*/5-' D*/*10J*' 1*(*' , */5)*4 , *. , *' %' ' /*62)9*' ,)&&60J*-*' ' //*' *9+*' */5' ' ' J*/' .*91*' , &' 3')C' ' :' . , &1&' */5' . , &)1' , &' 9*5&. , &' 4*101' ' :' , 01' '39.)&*.01&' G&6' . . *9*-1' ⁄ *2/*2).*)*./*2'*)*' 0&' *' ' ' &' .0/' / ' :' */17)0.' 3')51' . , *. ' , *6&'6*)0' 21' 9&*/0/(1' ':&3'1&7.*)0*/' 3')C1' ' :' . , &' B&J/*1' *)&' . , &:' 30/(' *2(*7 , */5)*-1' ⁄ B0/*9' ' /0.*/*-*'@ . , *. ' 01' . ' '1*-' ⁄ '1' / ' :' . , &' B&0/*' 1*(&' . , &1&' 4&0/(' . , &' 3')51' 30 . , ' 3 , 07 , ' &*7 , ' 6&)1&' 7' /7 25&1ℕ . , 01' 01' */' &H+' 10.0' / ' :' 60).2&' *77')50/(' . ' . , &' B&0/*1' ⁄ , *1.)*1*2)*:+)' +' 2/50/(' B&0/*1' 60&31' ++' 1&5' . '' A)*, 90/019')0..*60*21*-1' ⁄ G , *)9*+*)&&71 , *, -' *' 7' /:2.*.0' / ' :' A)*, 90/0' *' . &/&.1' , &' .3 '' :' 30/(' *)&' 6*2*4&' 7' 99&/.*)0&1' '7' 99&/.*)-' / ' /. , &' ⁄ 9*)*' 1, *-')' */17)0.' 6' 7*42*)-' 7*&5' ⁄ *27 , *)*J&&-*-' 7' 99&/P .*)-' ' /' * *-' ' 5 , *-1' 507.0' / *)-' . , &' ⁄ 405 , *2/*)*./*9*2*, ' " ' " , &' :' 3&)1' ' :' . , &' 02(*-&.1&7.' , *6&' 72.06*.&5' */*)&1&' +' &.)-' ' ' *' 6&)-' 7' /105&)*4&' &H.&/.' , &' :' 30/(' *)&' */*)&1&' 0/(*-&.' 3')C1' , &' ⁄ , *.*7*-' ' :' 91&1 , 3*)*' 3 , '' 06&5' 0/' . , &' .09&' :' . , &' A* *2*' C0/(1ℕ 0.' 7' /.*0/1' &(&/51')&(*)50/('A*1*6*' 90/01.&)' :' A0J*' *' C0/(' :' *-*2/*' +' ')*' /' . , &' ' ' /(*425)*' */5' . , &' :' 2/5&)' :' . , 01' 1&7.' 0)' ' +*271 , *-1' ⁄ , */ /*4*1*6*' ' ')*/*-:0/01 , &5' G' ! ! ; 0 ; NP

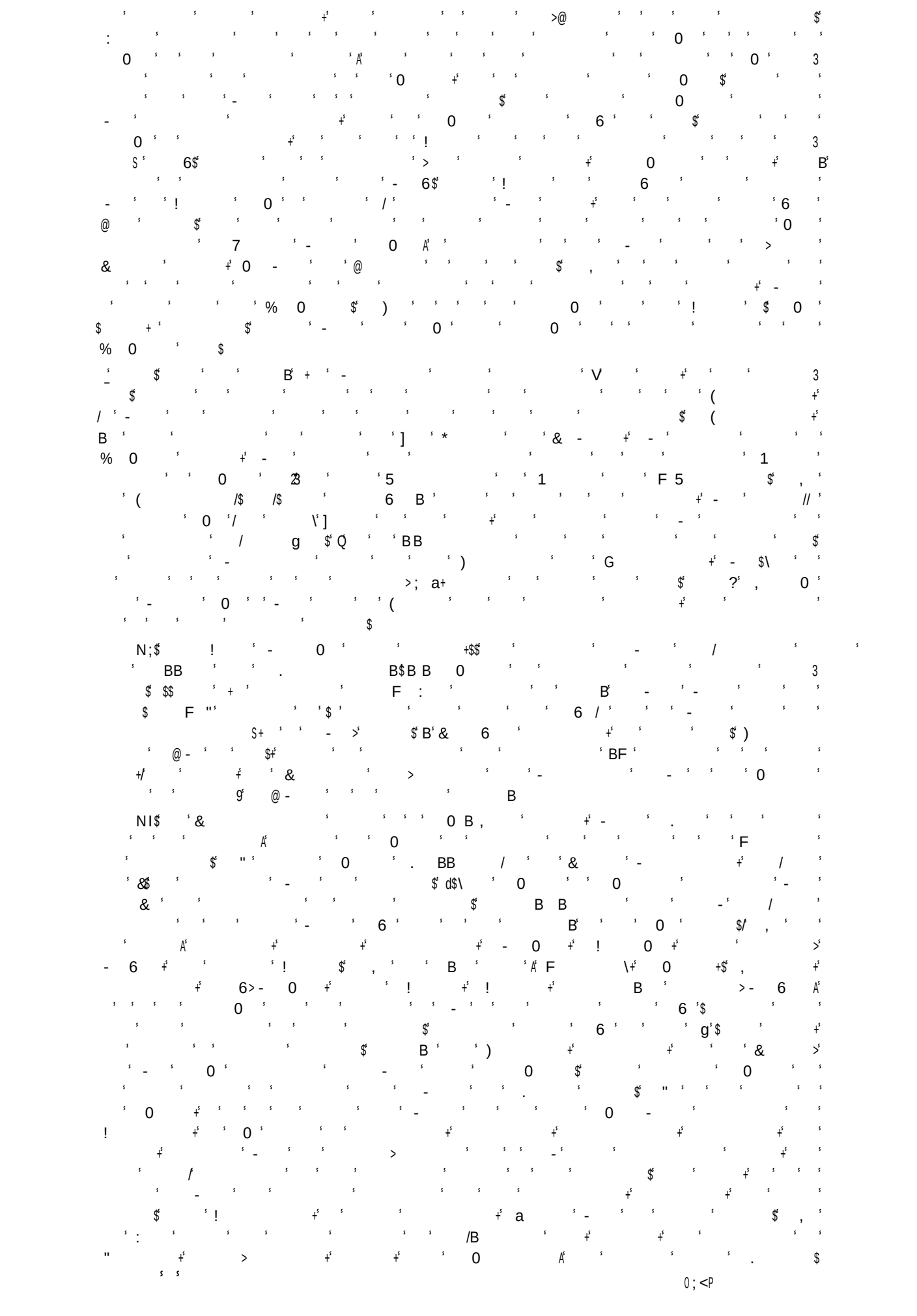


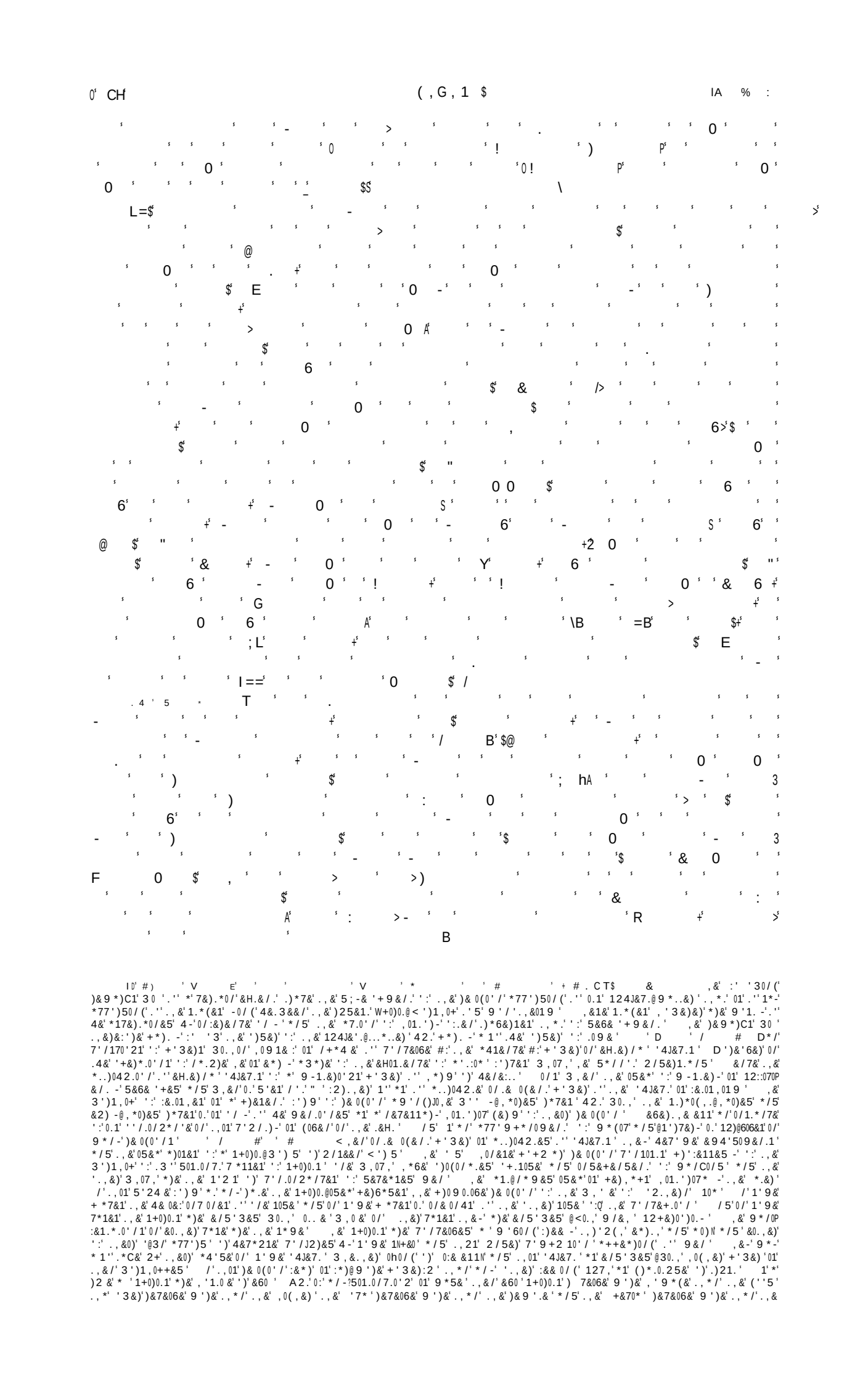




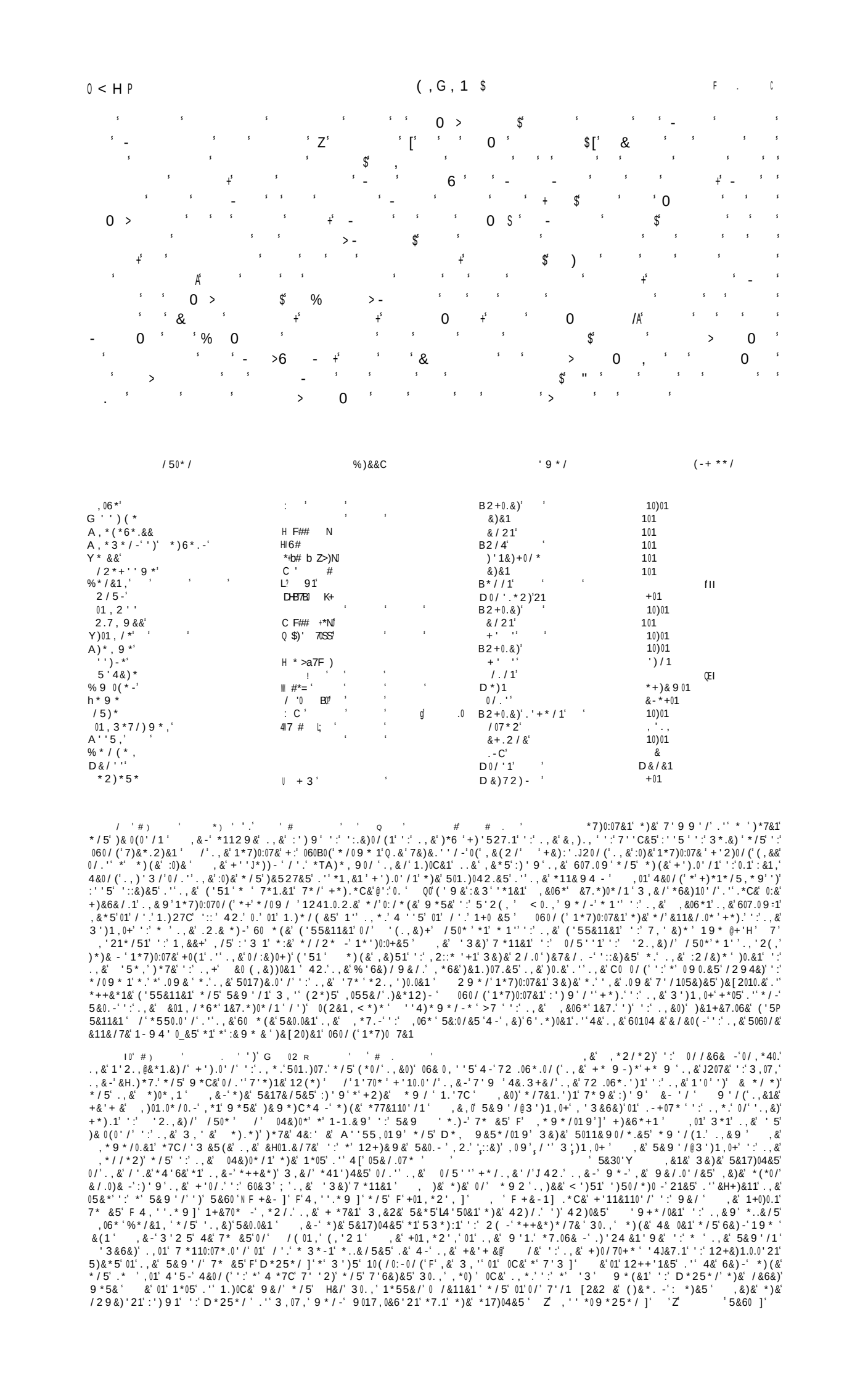


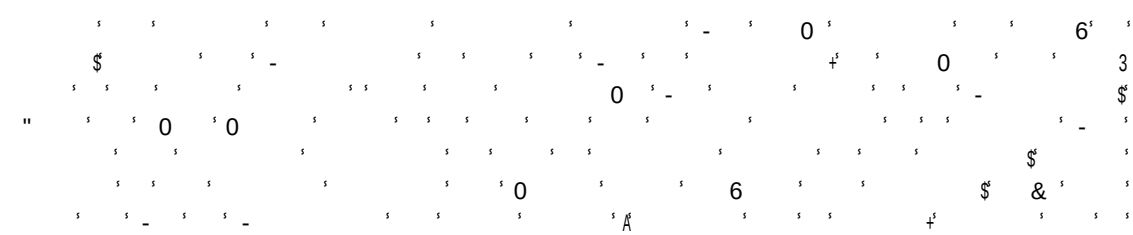




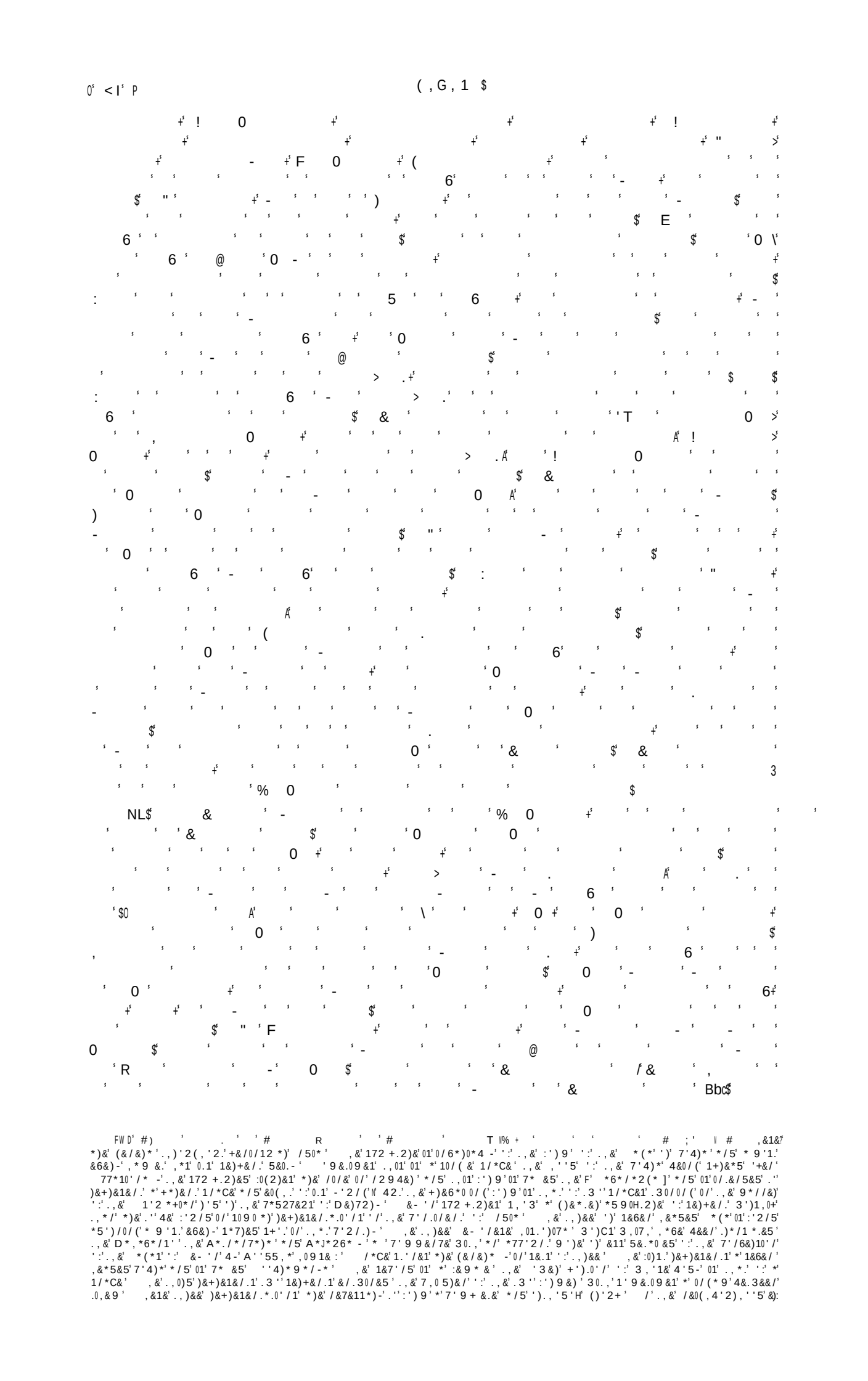


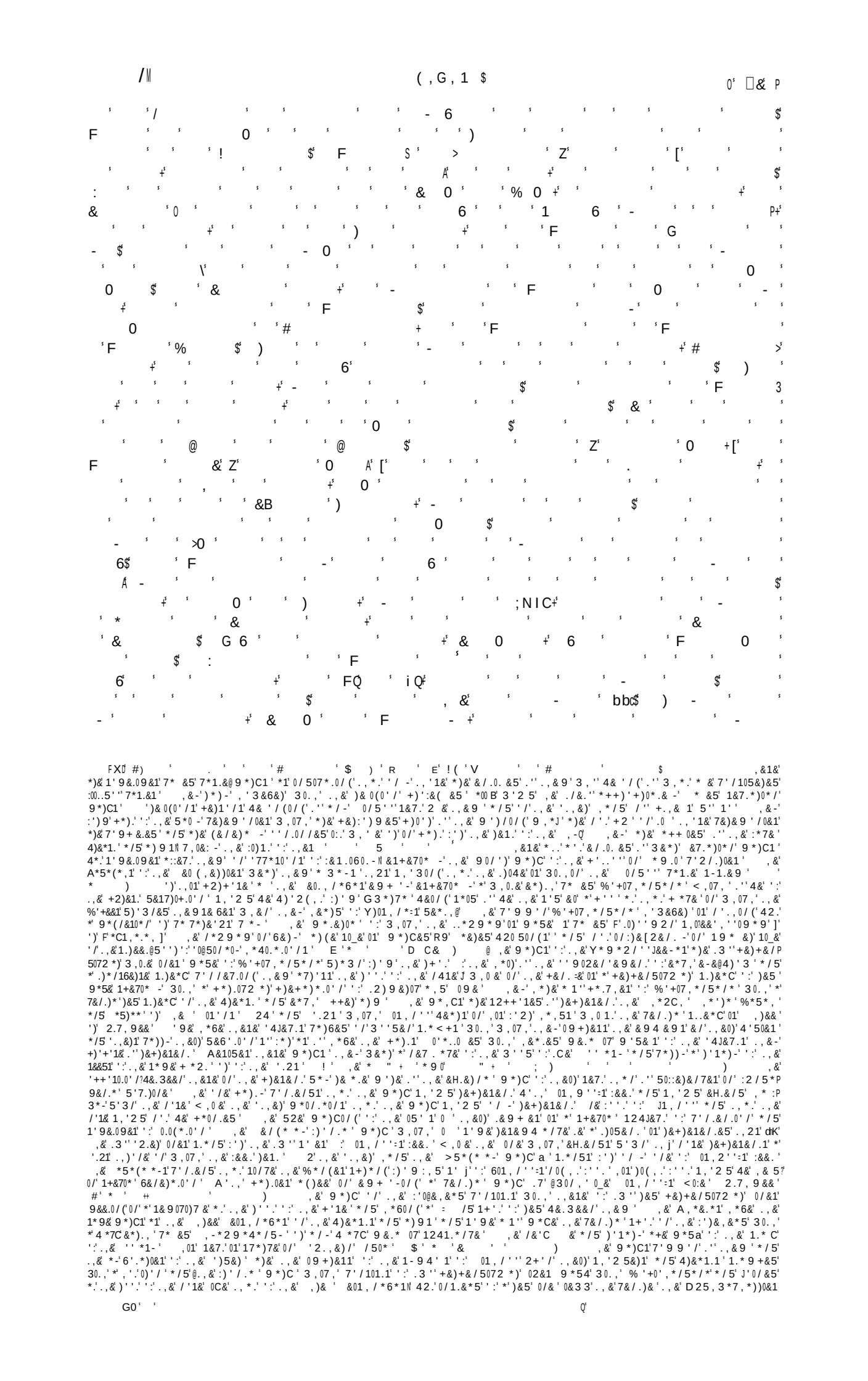
+)&1&/.' :') 9' 3&)&' 5&10(/&5' .'' 2+, ' 5' ., &' 5' 7.)0/&1' :')06* '1&7.1' 3 , '' 3&)&'&/(*(&5' 0/' 7' /.&1.' 0/')& 0(0' 21' 12+)&9*7-' &1+&70* -' 0/' ').,&)/' /50*?:)' 9' .,&' .,0)5' .'' .,&' /0/.,' ')' .&/.,' 7&/.2)0&1' ,&0)' &*) 0&1.' &::').1' 3&)&' 50)&7.&5' *(*0/1.' A''55,01 9 ' 3 ,07,' 501*++&*)&5' 4&:')&' .,&9 ' ' 01.' ':' .,&9' *1' C/' 3/'0/' '2.,&)/' /50*'01' (06&/' 0/'*' *.&)' /'.&' $' * ' / # ,01'01' *' 5*HC' */5' 9 -1.&)0' 21' +, *1&?':' .,&' 0/5' '')& 0(0' / ' B.1',01.')-' 01' 4172)&' */5' 0.1' :' 2/5&)1' *)&' 2/C/'3/') ' 9' 0.1' /*.2)&' / -' *1' 0.' 01' 4*1&5' '/'+, * 01 9 ' 0.' 01' &605&/.-' *' :*0.,' 4& ' /(0/('.'' &*) -' /*.0'/1' .1' ')0(0/'*1' *' 1+&70* ')& 0(0' /'01' 1*05' .'' ,*6& 4&&/'0/' '),.&*1.&9' /50*' 1' 9&' .<'',' 21*/5' -&*)1' *(' ' 42.' 0.' 9*-' 4&'09 9&/1& -' ' 5&) ' */.)07' 3')1,0+' 01' 4*1&5' '/'.,&'.,&')-' ':' .,&' 7' 9 40/*.0' /' ':' ,2 9*/'&H7&11') .,')& 0(0' 21' 7'/.&9+*.0'/' ' ,&' */.)*1' .,&9 1& 6&1' *1129&' .,&':') 9' ':' *' 50* '(2&' 4&.3&&/' ,06*' */5' ,01' 30:&')6*.-' ,&' 5' 7.)0/&' 1+&70* -' 0/72 7*.&5' 01' .,&' 3')1,0+' ':' .,&' ,*7.-' ')':&9*&'&/&)(-' ':' 5060/0.-' *)-*.-' ,&)1& :' .,21' 4&7' 9&1' .,&' '4J&7.' ':' 3')1,0+' ,*.':.,&')& 0(0' /' 3*1' '/7&' 305& -' +)&6* &/.' 01' 1,'3/'4-'.,&',' 5' 0.' 1.0 ')&.*0/1' '/' .0&' +'+2 *P .0'/'0/'A&/(*' ,&')0.2*' 2/5&)' 0.' 01' &H.)&9&' */5' .,01' 01' +)'4*4 -'/'.' *' 7'))2+.0'/'42.' .,&' ')0(0/*':+)9' ':' .,&' 7)&&5' /' '2.,&)/' /50*' 0.' 01' /'.' 0/50(&/'21' .' ,*1')&+)&1&/.*.06&1' ,'3&6&)' &1+&70* -' .,&' */7,'' -*O' &1&3,&)&' 5&17)04&5' ' + ' ' 9*/)0*' A,*..*' 3*1' *' A)*, 9 0/' ':' A&+*)' /' .,&' &0(.,'7&/.2)*' G0(60J*-*N * ':' '30/(' .,&' 1*9&' 7'2)1&' ':' /*))*.0'/' */5' 5&.*00/(' 0.. &' 9')&' .,*+' ,2/7*)*-1' +/.)'6&)10*' 607.')0&1' '6&)' 6*)0' 21' 1&7.1' ':' .,&' .3'' +)0/70+*' 3')C1' ':' .,&7*11' /&' 01@*..)042.-' ' /*/5*(0)-?' *' +2+ ' ':' ,2/''*)*N.,&' '.,&)'01' .,&'3')C' ':' D*5,3*7,*)-*' .,&' 90/01.&)' ':' 1'9&' ':'.,&'*) 0&1.'7,0&:1' ':' 0J0*/2((&)' ,01' *1.' 01' *' 7' 9+'10.0'/' ':' ,0(,' 0.&)*)-'*/5'+' &907*'+)&.&/10'/' 42./'.'&[2*-',0(,'40'()*+,07*'6*2&' '9&'+*).072*)1' ':' ,2/7*)*-1' 40).,' */5'&*) -' 0:&' *)&' .'' 4&' :'2/5'0/'.,&' Y&)*' '+2..-')' +'0.07*' */5' 1.*.01.07*' 5&17)0+.0'/' ':' D*4*)'*.,'2(,'.,&'3')C' 01' 1'9&.0&1'1*05' .'' ,*6&'4&&/' '9+'1&5'4-',2/'*)*' ,09 1&:' <0.,')&)(*)5' .'' .,&'+*7&' ':' ,2/''*)*-1' 40).,' */5'.,&'.)04&' ':'3,07,',&'3*1' *'9&94&)' 9'1.' *77'2/.1'*(0)&&'.'' 9*C&',09'*' /*.06&' ':')*/(*/')&' 0/' D*4*)' ':' .,&'.)04&' ':' 294'')-' A)*, 90/1'9/5'0/'.,&'9-.,' '(07*' */(2*(&' ':'.,&'1&7.'*/' 0/7*)/*.0'/' ':' ,06*' 77')50/(' .'' '.,&)' .)*50.0'/1' ,&'3*1'4')/' *.' ,05*94*)*9'0/' '2.,' :'' '.' 501.)07.' * .,'2(,',&'.)*/1:&))&5',01')&105&/7&' .'' D*4*)' &' 01' 1*05' .'' ,*6&'4&&/'4'9?' ':' (' A)*, 90/' 9'.,&)' ,-' *' '<@7*1.&' :*.,&)' ' ,*.' .,&)&' 3*1'1'9&.,0/(' 2/212*' *4'2.',01'40).,'01' .'' ,&' 0/:&))&5' :)+9' .,&' :*7.' .,*.' *:.&)3*)51' <,&/' '/',01')&.2)/' ,'9&' ,&' 3*1'7* &5'.''+&):')9' .,&' :2/&)*' 7&)&9' /0&1' ':' ,01' 9' .,&)' .,&' A)*, 991')&:21&5' .,&0:' 7'@'+&)*.0'/' ,2/7*)*' 0.'01'1*05'+)'527&5':0)&':)' 9' ,01' *)9' &)&7.&5' .,&' +-)&'0/' .,&' (*)5&/' ':' ,01' +3+' ,'21&' */5' 7'/7 25&5' .,&' 7&)&9'/-' */&' /' D*4*)' .,&' 50605&5' .,&':'2)' ')0(0/*'+*1.&1'0/.'' &6&/.-@.3' ' ')' &0(,.&&/'124@506010'/1' &*7,'*+5' *110(/&5' .,&9' .'' .,&0)')&1+&7.06&')0.&1' */5' 52.0&1' '*77'2/.1'7'/72)'0/')&+)&1&/.0/(' ,2/''*)*' *' &*50/(' *' 3*/5&)0/(' 0:&'*/5' &/(*(0/('0/' 1277&11:2'7'/.)'6&)1-' 30.,'6*)0'21' 1&7.1'3,&.,&:':' .,&' ,&06*' h&0(,/*-*'')' &11')., ,'5'H? +&)12*10'/1' /'.,&'7'2)1&' ':' ,01' 3*/5&)0/(1' ,&'&1.*4,1,&5'1+?2)*' 9*..1' ')' 7'/6&/.1' /5+)' .,&'7'/.) /' ':' ,01' 50170+&1' +*).0P 72*)-' '/&' 1.0 ' :'2)01,0/(*26)-' '/' .,&' <&1.&)/'%, 2.1'/&*) .,&' '2)7&1' ':' .,&' ''/(*425)*' '3*)501' .,&' 7'1&' ':' ,01' 0:&' ,&')&+*0)&5' *1' :*)'*1'.'' *1, 9&&)'*/5'1&*.&5' ,09 1& :'*:.)'.)02 9+,0/(' '6&)'6*)0'21' ++'/&/.1'' /' .,&' .,)'/&' ':' *)*13*.&&' '/'3,07,' ,2/'*)*'1*.'01' 1.0 '1,'3'/0/' *1,9 &)N'3,01.'*.' .,&'.&9+&' ':' ,06*'*.' A*5*)&&'*'D*'4*)' A)*, 90/' ':' .,&' 294'')-'.)04&' ,*1' *3*-1'4&&/'.,&'::070*.0/(*+)0&1.' ,&'1-1.&9'*56'7*.&5'4-' ,2/7*)*'7'/.0/2&1' .''0/:2&/7&'.,&')&&5' ':' .,&' ,&06&0.&'A)*, 90/1' .,&'+)&1&/.'5*-' .'01'4* 5'/'.,&' &5*/.*'+,0'1'+,-'*/5',' 51'.,&' *53&0.*'0/.&)+)&.*.0'/' ':' .,*.' +,0'1'+,-' ,&:&'01' 42.' /&'.)2&' 1241.*/7&' A)*, 9' *:*4)*, 9' A2.' /' .,&' .,&)' ,*/5' *1' .,&' 90/5' ':' 9*/' '* +'.'&&6*.&'0.1&.:' .'' .,&' 7'/.&9+*.0'/' ':' .,&'0/17)2.*4&' :0)1.' 7*21&*/5' /-' 1'2',&' 9*-' 4&'7'/.&9+*.&5' .,)'2(,'0/:&)0')' 5&0.0&1' ,&'0/: 2&/7&'.,&')&&5' ':' .,&' ,&06&0.&'A)*, 90/1' .,&'+)&1&/.'5*-' .'01'4* 5'/'.,&' &5*/.*'+,0'1'+,-'*/5',' 51'.,&' *53&0.*'0/.&)+)&.*.0'/' ':' .,*.' +,0'1'+,-' ,&:&'01' 42.' /&'.)2&' 1241.*/7&' A)*, 9' *:*4)*, 9' A2.' /' .,&' .,&)' ,*/5' *1' .,&' 90/5' ':' 9*/' '* +'.'&&6*.&'0.1&.:' .'' .,&' 7'/.&9+*.0'/' ':' .,&'0/17)2.*4&' :0)1.' 7*21&*/5' /-' 1'2',&' 9*-' 4&'7'/.&9+*.&5' .,)'2(,'0/:&)0')' 5&0.0&1' ,&'0/: 2&/7&'&H&)701&5' 4-' ,2/7*)*' 0/' +&)1' /' ,*1' 4&&/' +&)+&.2*.&5' 4-' ,01' 3)0.0/(1'.,&' 9'1.' &90/&/.' ':' 3,07,' *)+' ,01' A,*1,-*' ')' 7'99&/.*)0&1' /' .,&' ' .)*1' ')' +*+,)0191' ':' -*21*' ,2/7*)*' 01' 1*05' .'' ,*6&' ,*5' :'2)' +)0/70+*' 50170+&1' 0/' .,&' +'+2*)' .)*50.0'/1' 7*&5' *59*+*25*' *1.*9*7*' ')&1,3*)*')' D*/5*/*'*/5')' .*7*' V '2) + # ' '* 0 ' / # ' ' ' ' ' ') ' ' ' ' J ,&' 12+)&9*7-' ':' ,06*' 3')1,0+' 505'/'.')&9*0/' '/(' 2/7,*&/(&5' '3*)51' .,&'&/5' ':' .,&'&&6&/.,' 7&/.2)-' *9*2 ''J*'*' ' 3&)' ':' 01,/''2/5&).''C' .'' 5&+'1&' ,06*'*/5'.+'1241.0.2.&',01' '3/' 5060/0.-' *9*2/''J*' 3*1'4')/'0/' ,)&&+&)9*.')&'/&*)'D*5)*1'*/5' .250&5'*.' *(-'3,&)&',&'.*2(,.',01'1-1.&9' ':' .,&=&01,/*6*':*0.,' 01' *92'/*9&'3*1'-&94)*9*2/*2)'*/5',&'3*1'.,&'*1.'+'.3&6&' *9 ' 2_,&')')&0(0'21' &01,/*60.&'&*5&)1' 01' 3')C1'*/5'.,'1&' ':' .,&'.,&)'&&6&/(''2/5&)'.,&'.0.&' ':' 0)''9'_,-''F'1*7)&5'3)0.N]'*/5'*)&' *'3)0..&/'0/' *92' :'.,&'.3&6&' *9*2/''J*'3*1'.,&'/-'+'&9 07*'<)0.&)' &H.'0':*9&'.'' ,09'3*1'.,&' ,)&&60 0+''..')&' 2_,3*)'0/'.,&' '2.,'*/5-*' '2/.)-' :.&)' &*60/(' */J-' *.'*09''J*')&105&5'*.' ,)&&D 0(*9'/&*)')07,0/'+'-'0/'*/' 01*/5':')9&5'4-'.,&'506010'/''':'.,&' *26&)-')J6&)0' &'1241&:2&/.-'6010.&5''.,&)'+*).1'':' /50*'*/5'3*1'1277&11:2'9' 7'/6&).0/(' 9*/-':)'9' ,06*'3')1,0+')0+*..-'.,&')(&1.'*/5')07,&1.'.&9+&'0/'.,&'+&/0/12*'10.2*.&5'0/' ').,)7'.'501.)07.'3*1'.*C&/':)'9' .,&'6'.*)0&1''':' ,06*'4-'*9*2/''J*'*/5',01'50170+&1' /',01')&.2)/'.'' ,)&&)2/(*9' .,&'501+2.&1'4&.3&&/'.,&' &01,/*6*'*/5' ,&06*')&0(0'/1'4&7*9&'&H7&&50/(-'60'&/.'*/5'.,&' ,'*')2&)'3,'' *77')50/(' .'' 1'9&'*77'2/.1'<*'1'.',.'.0'&*)07*2*' ,'*'4&0/(' *'5&6'2.'3')1,0++&)'':' ,06*'7'9'1.'/'/@52*]' ,&'5060/&'1'2'*/5'.,&',29*+'k2'3&)&'/'.'*41'2.&-''/&*' &' 53&0.*'1-1.&9'.*2(,.'42.'3&)&'7'1&-')&*.&5' 0/'*'4&*.0.25&' 3*1'.'' 4&' 4.*0/&5'/'.'4-'C/'3&5(&' /-N 5&6'.0'/'*/5'.,&' 21*(&1'':' +24 07' 3')1,0+'3&)&'*1'')&[20)&5' *)*'A)*, 9'3*1'05&/.0:0&5'30.,' 01,/''' 3,'1&' 12+&)0')0.-'3*1'*11&).&5' '+)'P 90/&/78&'3*1'(06&/'.'',&'0/7*)/*.0'/'':'Y)01,/'10/78&'4&7'.+'1''+'2*)' *9*2/''J*'01'1*05'.'',*6&':'2/5&5'$;;')&0(0'21',' 21&1' /&'':'.,&9')&9*0/1'*.'D2:&'.*-'*4'-&@9&/.0'/&5'0/'D-1')&' &'*1''&1.*4 01,&5'$"',&)&50.*)-' .&*7,&)1,0+1'*9'/(1.',01':' 3&)1'.,&')&+)&1&/.*.06&1''':'<,07,'*)&'1.0':'H95'0/' '2.,&)/' /50*'*.' '/J&&6&)*9' ,)&&)2/(*9' >7' ,&':' 3&)1'':' *9*2/''J*'*)&' 7* &5'&0.,&)' *9*2/''J&&-*1'')' ,)&&' &01,/*6*1' ' * ') ' ' '& ; ./&*)-',&'1'9&+&)0'5' *9*//[J*'*/.,&)' '2.,&)/'A)*, 90/' /*/.*.&&).*' 4')/' *.' *-*2/*''/'.,&' D *4*)'7'*1.' +21,&5' 1.0 ':2).,&)'.,*/' *9*..*''J*'.,&)&*7.0'/'*(*0/1.'.,&'05&*019'':' .,&' 17,'''':' ,2/'*)*' /'.,&)'':' /*/. .&').*-1'/*9&1'01' D*5,3*7,*)-*' /'.,&' *)3*5*)1,*/*1*/()*,*',&'01' 70.&5'4-'.,&'/*9&' '9*+)*/-*@ '3')C'01' 1'' [2'.&5'*1'<)0..&/'4-',09'2/5&)'.,&'/*9&''':' D*5,-*9*/50)*' &' 3*1'.,&'1'2'':' D*5,0(&'A,*..*''*/5'3*1'4')/'0+'..,&' *'*-&*+' ' ' 77')50/(''.'',&' &(&/5*)-'4&0&:''' ,01':' '3&)1',&'3*1'*/'0/7*)/*.0'/'':' *-'''')'.,&('5'':' *0)'3,'' .''C' 2+'/',09 1&:.,&',29*/':')9'4-'5&10)&'':' *)*-*/*'*/5'3,'',*5'4&&/'0/7*)/*.&'*1' */''9*/' */5'A,&&9*'0/' +)&7&50/(' *(&1')0(0/* -'*' ,&06&0.&' ,&4&7*9&'*' +&)6&)./'.'' 01,/' 019' &' 3E1' &527*.&5'0/'.,&' '/6&/.'&1.*401,&5'*.' /*/.&1,3*)*''*/5'0/',01,/0/.,'-&*)'3*1'0/0.0*.&5'0/.''.,&'')5&)'':' *17&.071'4-' 7,-''.*+)*J*,' *' 5&17&/5*/.' ':' 2?272 ' ':' A)*, 9*' , .,*.



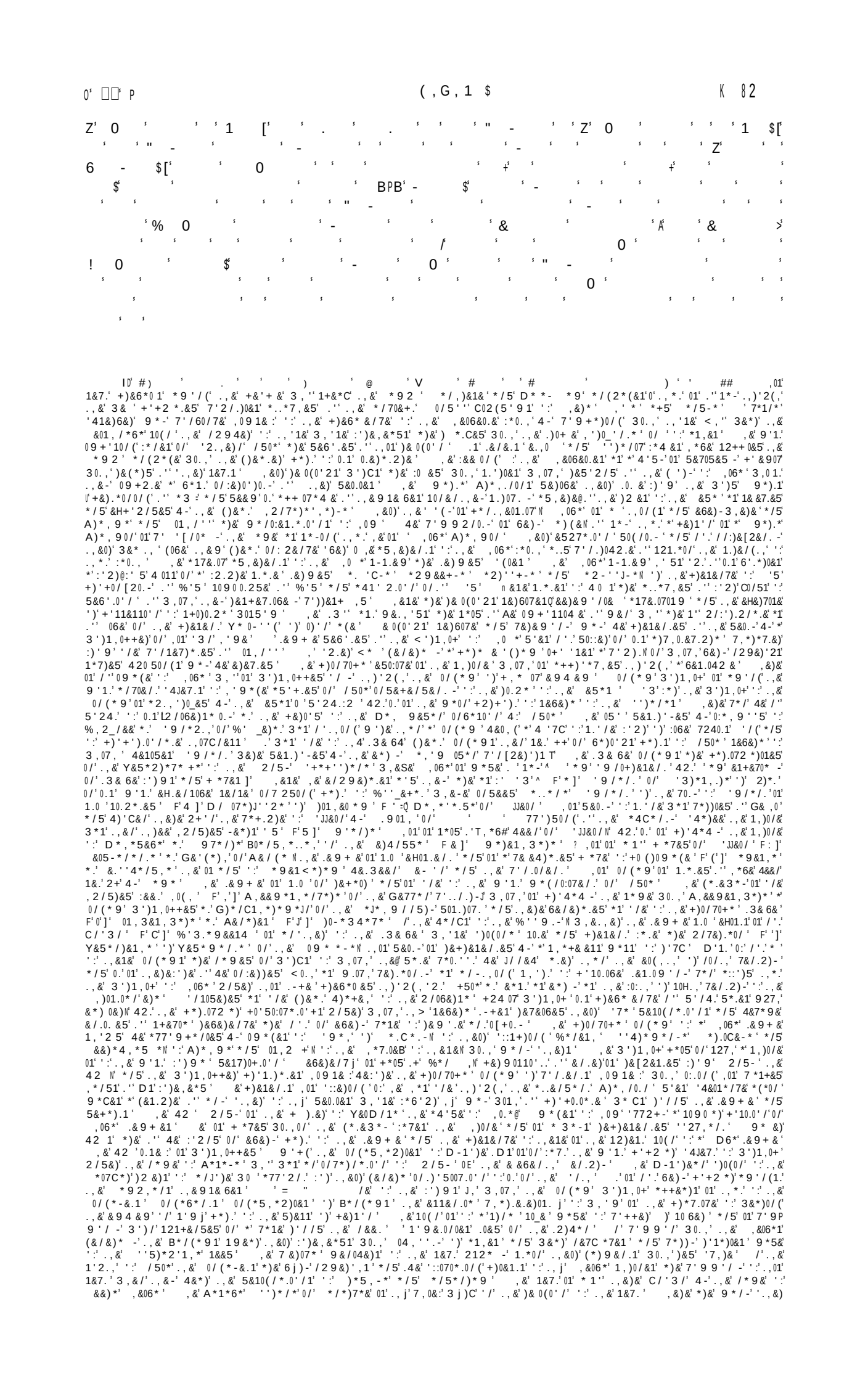


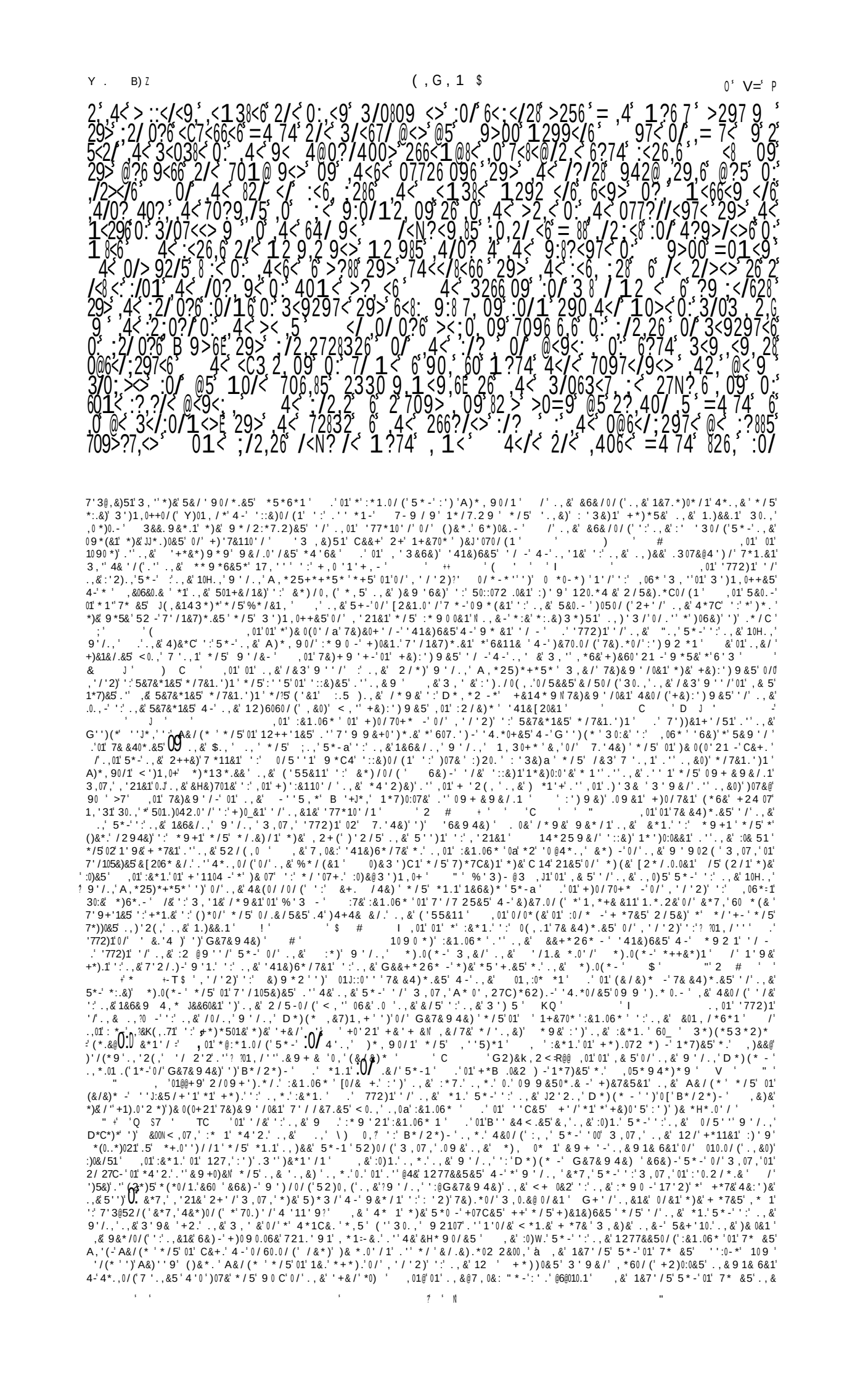
3')1,0++&5'4-'+'..&)1'3,'' 5)&*5',01'4)&*C0/(' .,&0)'+'..&)-'3,0&'0.'01'4&0/('42)/.'0/'.,&'C0/' F' ''9009*/5*/]' ')'F'4244&'5& 06=' 5*/7&1''/'.,&'12):*7&''.',&'3*.&)' F' ')''.,''9*25*/']'01'.,&'F':0(,.0/('5&60]' F &&7,*@' 9*25*/]'01'.,&'F'L)0'C&5 5&60]' F' ,''5* *00:0*25*/]' ')'F'()*&-*)5' 5&9'/]'53& 1'0/'+*7&1'3,&)&'7')+1&1',*6& 4&&/'42)0&5')'42 2.' /'.,&)'+'+2*)'5&9'+'01' D*0*/''F'.,&' %0*/.]')&6&)&5'&1+&70* -'4-'.,&'.)04&1'3,''0/,*40.' .,&'9'2/.*0 1''':')*6*/'')&' 01'30:&'01' *)' '/(*2-')'F'A *7C' Y* &&]' F' ''..-' ,*2..*2]'F'0..&' 4*/..*/]' 01'*':*900*)'1+0)0.'0/6'C&5'0/'+&):')90/('J2((0+('.)07C1' /'.,&)'5&9'/'01'7* &5'F'D''.',*/509''+*/']' ')'F.,&' '5'9*/''.'.,&'.,)&&')'*51]' &'01'1*05'.''':0&'.05'*.'+*7&1'3,&)&'1&6&)*')'*51'9&&.'3*.7,0/('.,01''++').2/0.-'.'' 0/J2)&'.,&'+*11)Q4-' /'/29&)'21'0/1.*/7&1'.,&'1+0)0.1''.'307C&5'9&/'*)&'*7.2*-'3')1,0++&5':.&)'5&*.,' '/'.&5')'44&)'/*9W5' *6*01,*9'3*1''/('..:0&'4J&7.'':'3')1,0+'0/'02/&6&-'))+ D*/-''/5)&/'*)&'/*9&5':.&)'5&9'/1'.''3,'9'.,&-'*)&'5&507*.&5'.''1*6&'.,&9':)'9'0/:*/.0&'501&*1&1' /'1'9&:*900&1'.:0&'&5&1.1'/'01'/*9&5'*:.&.',&'5&9'/'3')1,0++&5'4-'.,&':*.,&)=1':*900-' ,&'1+0)0.1'':'5&+)*6&5'9&/''')'':'.,'1&'3,'',*6&'9&.'30.,'*'60'&/.'5&*.,'4-'5)'3/0/(',*/(0/('')''.,&)'9&*/1'4&7'9&'5&9'/1'*'1'*4'6&'1*05'3*/5&)0/('*4'2.'.''0/:07./0/J2)-'0/'6*)0'21'3*-1'2+'/'9*/C0/5' &/7&*)'1&*'1+&70*'721.'9'0/'.,&'&H&72.0'/':'92)5&)&)1'4-',*/(0/(' .'3*1'12++'1&5'.,*.' .,&0)'1+0)0.1'3 25',*2/.'.,&'+*7&'':'&H&72.0'/'+/5'0.1'/&0(,4'2),''5':.''+)&6&/.'3,07,'.,&'&&1'':'.,&7)090/*'3&)&' 72.'30.,'*'13')5' ',*91.)2/(''*1',&':& ':)'9'.,&'.)&& &).*0/',9@1':'&6&)-'5*-'*)&',&5'.''4&2/27C-'*/5' 5*/(&)'21' .'/''/'*1'3& '*1'*.'9050/(.'&1+&70*-''/')05*-1'&60'1+0)0.1'*)&'12++'1&5'.''4&')'*90/('*4'2.' 3*0.0/(.''1&01&' .',.,'1&'3,''3*C':)'9'.,&0)',' 21&1'0/.''/&-'+*7&1')'/')0/(1''/'.,&':0/(&)1'')'.'&1'')'*/'0)'/' 1.*::' *H&7'/105&)&5'.''*::')'5'+)'.&7.0'/':)'9' 2&:0*..*7C1' .'/0(,.',&'5&+'/1'7*' '25-'0/'')5&)'.''* 2)&'+&'+&' '2.'':'.,&0)', +1&1'0+.''.,&'501.*/.J2/(&'<, ,'.:0&-'7*/'C0' .'/0(,.',&9' &/7&'7* 1'*.' /0(,.'*)&'/&6&)')&1+''/5&5'.'' 2/.0'.,&':''/..:0'))&+&.0.0'/'':')'5&60 1'30' +-'7*'.,21'.,)&&'.09&1' .'.,&'+&)0'5':'+24&).-''*/5*:.&)'7,05P 40).,'3'9&+''*)W+&72 0*)-'0*4&'.''.,&'*..*7C1':'5&9'/1'*/5'.,&-'*)&'.,&'7*21&':'7'/62 10'/1'*/5'1090*)'501')5&)=0' ,&'1255&/'0 /&1&&1':'7,05)&/'*/5'*52.1')',&5&9'.''*)01&'0/'.,01'3*-' *09 1'.''30.7,7)*:.'5060/*.0'/'*,"' 9*(07*'1C:''*)&'9*5&'4-'6&)-'9*/-''':'.,&'5&9'/@3')1,0++&)1' "'D + ++ ' ' ' +' ')+;' #@ ,&' +)0&1.1'3,'':.70*.&'0/'.,&'3')1,0+'+*05'.''&60'1+0)0.1'5''/'.4&'/(.''*/-',&)&50.*)-''')'&H7 2106&'7*11'0:0&',*.'':' .,&'A)*,90/1'*0:.'+(1.',&'2++&)@7*11'G)*.050* 1' /-''/&'&6&/'*'3'9*/'9*-'*7.'*1'+)0&1.''')'5&60@5*/7&)'0:'.,&-' *)&52-'0/1+0:&5'4-'.,&'5&9'/'0/6'C&5' ,&'F':&-''01')'5&60'.&9+&1')&'6&+-'/29&)'21'.,)'2(,'2.'.,&'7'2/.)-' ,&-'4&*)'/'')&1&94*/7&'.''.,&'*)(&'A)*:090/07*'.&9+&1' 9*(&1'*)&'..'&11&/.0*'&&9&/.'0/'5&9'+@3')1,0+3' 3,&)&'.,&-'*)&':'2/5'.,&-',*6&'4&&/'*5'+.&5':)'9'.:0&'A)*,90/07*'3')1,0+' ':)'+.''':'.,&'5&60'.&9+&'')'1'9&.09&1' 30.,'2.'*/-'7#d)&5'&50:07&'.,&)&'1.*/51'*' 9*'+-)*9 05*'I&)&&.0''/'')''4&01C':'2)'')':06&':&&.'0/',&0(,.'(&/&)*-' 420.'':'4:0'C*5'1.'7'&5'3,07,'01'*3*-1'*11'70*.&5'30.,'.,01'3')1,0+'*,5'.*C&1'.,&'J5*7&':'*/'09*(&'/105&' 1'9&.&9+&1'*,&'+*7&5'.,&'09+&9&/.1'*/5'1-04'1':'5&9'/@3')1,0+N5*/7:00(@.0'C1':')3*/51',&'+)0&1.1-':'&)*(*)9&/.1' .)05&/.'B>' /'.:0&)1'*)&':'2/5''/&')'9')&'09*(&1'':'.,&'5&9'/'.''<,'9'.:0&'.&9+&'01'5&507*.&5' :0&'5&60@' 5*27&)-1(*). &2.'7'/101.'':'*'J*7C&.'30,&9A)'05:(a=t&+:& &/.*.0''/1':'5&60 1'3')C&5'0/')&5'.''5&/'.&'.,&0)'4''5@.,0)1.-' 7,*)*7.&)N*/5'*'+*0)':'.'1,')5)*3&)0)'.'/*3'.,&70&1*'/5'(06&'.,&)'0/:')9*.0'/':')' ,+'(205*/7&':'.,&'*11&94&5'7)'35':' 3')1,0++&)1' ,&1&9')&'09+).*/.'1*')0:'&1' 5':&1.06*1'*H&',&5'*/ +* -N')'I'&'*10'/*-'*1'9*-'4&'7'/105&)&5' /&7&11*)-'0+'.09&1':'+)&6*&/.'501&*1&' ')'0+':2:0 9&/.':'6'31')&60'21-'9*5&' 2/51':')'.,&'/&7&11*)-'&+&/1&1' *)&'7'/.)042.&54-'.,'1&0/.&)&1.&5' 0(,.'01'.,&'1&*1'/'7,'1&/':')'.,&')0/70+*'+&):')9*/7&1'*/5'.,&':&1.06*' 12*-' 7'/.0/2&1':')'.3 ')'.,)&&'5*-1'*/5'/0(,.'::0&'::070*.0/(')0&1.'3,'&6&)',j'9*-',*++&/.'',&'01':0)& &5':')'.,&' '77*10'/'0/'.,&6&1.9&/.1'*/5')/*9&/.1' ,&'+)0/70+*':&*.2)&':'.,&'3')1,0+' '+101.1'0/'*/09*'1*7)0:07&1'*/5'0:0*.0'/1':' 4':'5' G'24.&11',29*/'1*7)0:07&1'3&)&' '/7&'::&)&5N42.'.,&'721.'9'0/' '2.:0' 2*'/'3'01'.'::&)'0/'1*7)0:07&1'*/09+').*/.':'77*10'/1'1,&&+'('*.1':'31'*/5'+0(1' '//&7.&5'30.,'.,&'1*7)0:07&1'01'5&60@5*/70/('0/'<,07,'.,&'5&9'/0*'*+'11&110'201'1'/(:0.' &).*0/'7&)9'0+1'*H&'*.'.09&1''41&)6&5'2)5&)'.''5)06&''2.'*/5'501+'11&11'*'5&60'4/.''/'.,&1&'77*10'/1'0.'01'5&10)&5'.''4)0/(':00:+'0/.''.,&'1'2'@':.,&'3')1,0++&)'B3:0''01'.,&/'7'/105&)&5'.''4&7'9&',01'0/1+0)&5')*)7&'*/5'.''2..&)'+)*'1*-1'*/5'.''4)0/(':00&'.,&)'0/:')9*.0'/':')' ,+'(205*/7&':'.,&'*11&94&5'7)'35':' 3')1,0++&)1' ,&1&9')&'09+).*/.'1*')0:'&1' 5':&1.06*1'*H&',&5'*/ +* -N')'I'&'*10'/*-'*1'9*-'4&'7'/105&)&5'/&7&11*)-'0+'.09&1':'+)&6*&/.'501&*1&' ')'0+':2:0 9&/.':'6'31')&60'21-'9*5&' 2/51':')'.,&'/&7&11*)-'&+&/1&1'*)&'7'/.)042.&54-'.,'1&0/.&)&1.&5' 0(,.'01'.,&'1&*1'/'7,'1&/':')'.,&')0/70+*'+&):')9*/7&1'*/5'.,&':&1.06*' 12*-' 7'/.0/2&1':')'.3 ')'.,)&&'5*-1'*/5'/0(,.'::0&'::070*.0/(')0&1.'3,'&6&)',j'9*-',*++&/.'',&'01':0)& &5':')'.,&' '77*10'/'0/'.,&6&1.9&/.1'*/5')/*9&/.1' ,&'+)0/70+*':&*.2)&':'.,&'3')1,0+' '+101.1'0/'*/09*'1*7)0:07&1'*/5'0:0*.0'/1':' 4':'5' G'24.&11',29*/'1*7)0:07&1'3&)&' '/7&'::&)&5N42.'.,&'721.'9'0/' '2.:0' 2*'/'3'01'.'::&)'0/'1*7)0:07&1'*/09+').*/.':'77*10'/1'1,&&+'('*.1':'31'*/5'+0(1' '//&7.&5'30.,'.,&'1*7)0:07&1'01'5&60@5*/70/('0/'<,07,'.,&'5&9'/0*'*+'11&110'201'1'/(:0.' &).*0/'7&)9'0+1'*H&'*.'.09&1''41&)6&5'2)5&)'.''5)06&''2.'*/5'501+'11&11'*'5&60'4/.''/'.,&1&'77*10'/1'0.'01'5&10)&5'.''4)0/(':00:+'0/.''.,&'1'2'@':.,&'3')1,0++&)'B3:0''01'.,&/'7'/105&)&5'.''4&7'9&',01'0/1+0)&5')*)7&'*/5'.''2..&)'+)*'1

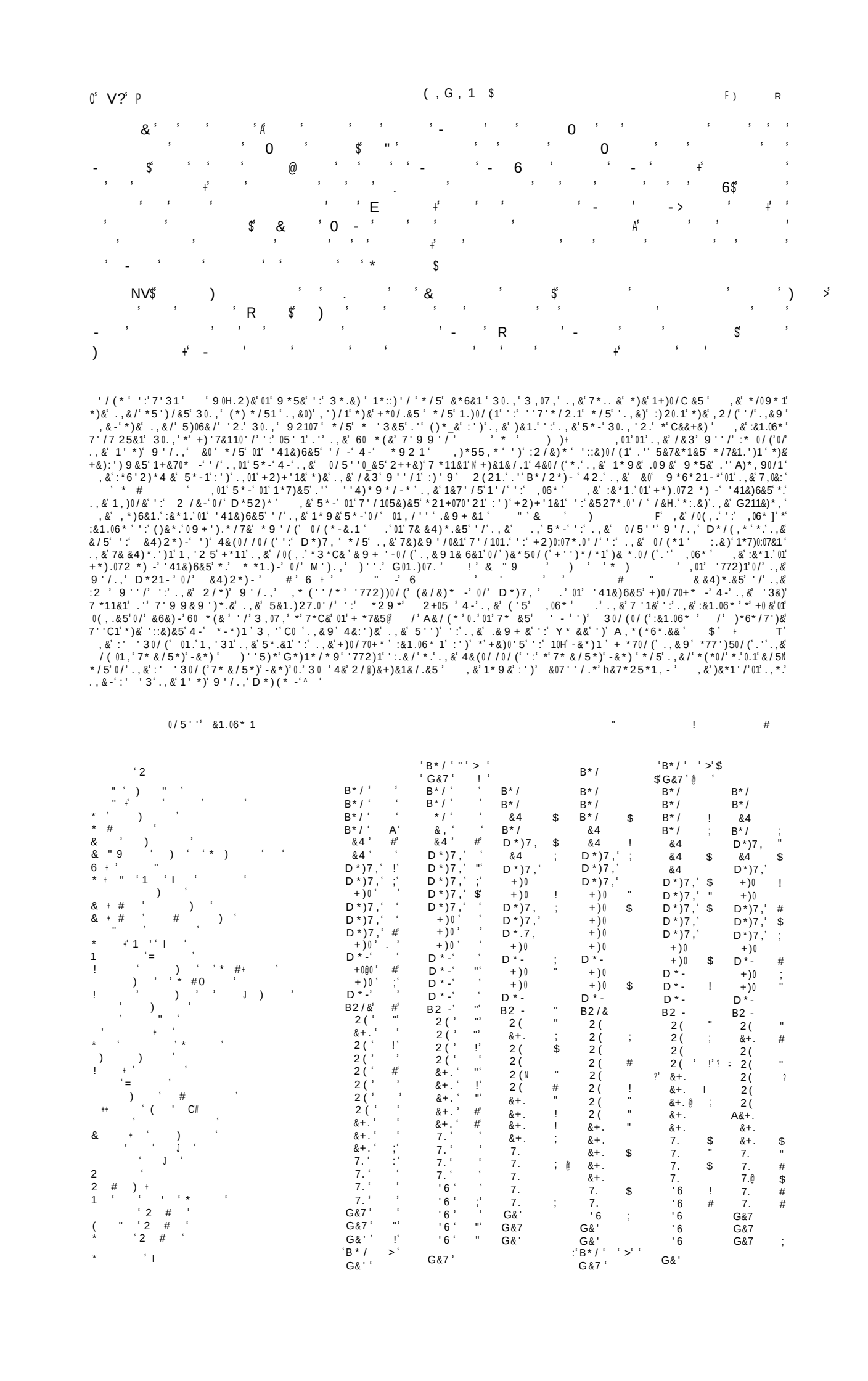


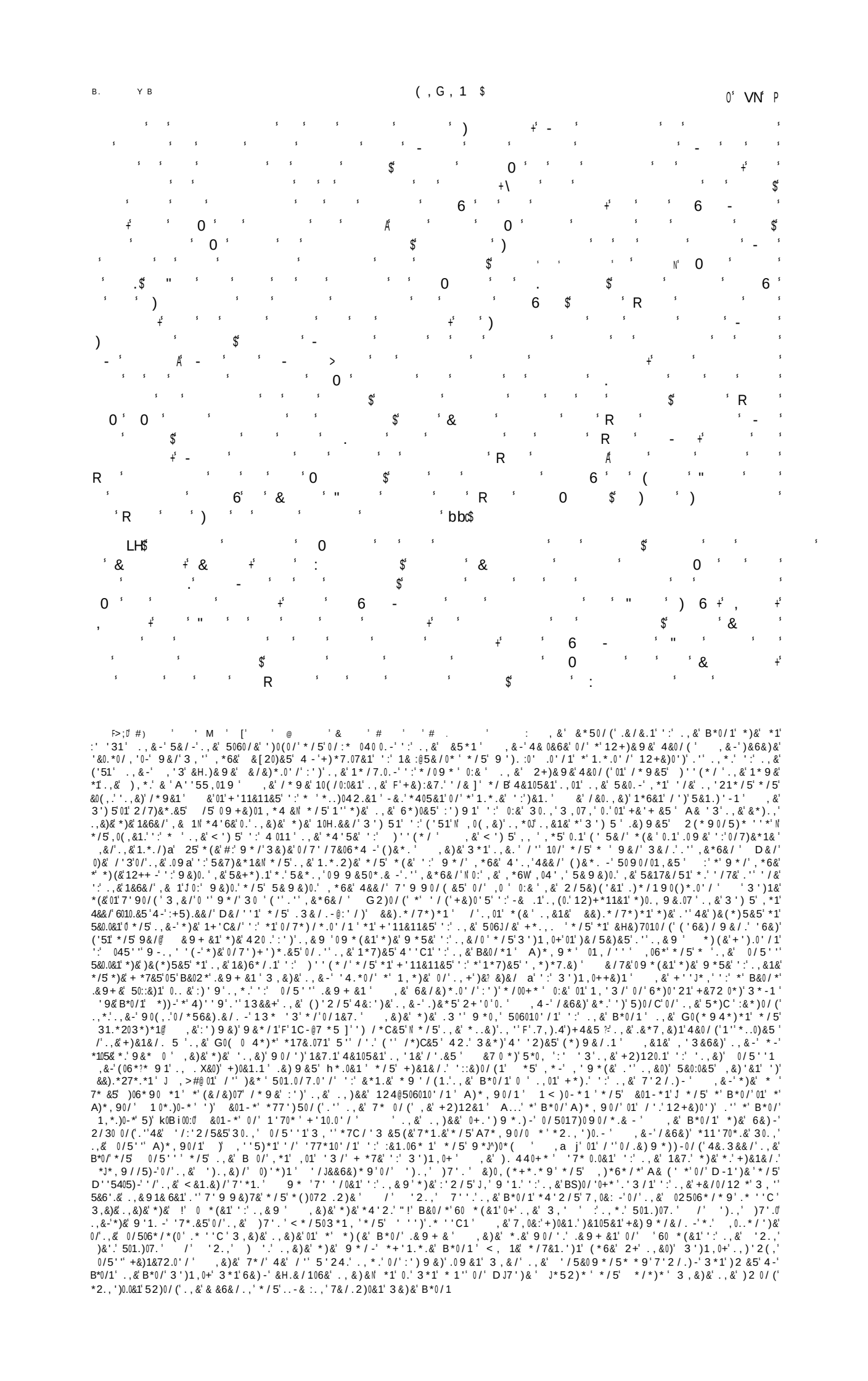


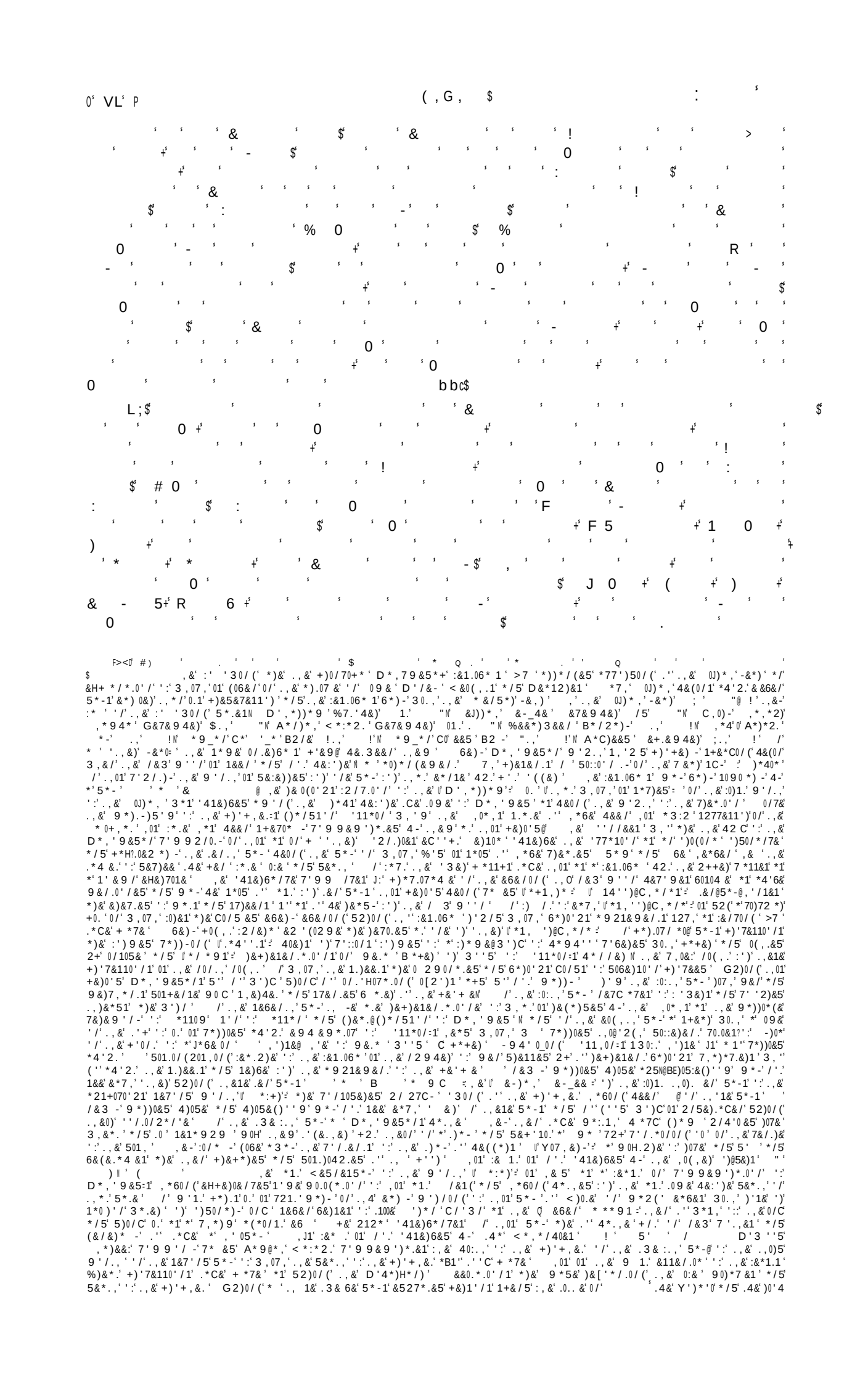
9 *C&' *' 1.)*0(, .' 4 *7C' 2&' . < . , ' . , &' 7 , *)7' * ' :) ' 9 ' . *7&/ 1&' ' ::&)&5' . '' .*)*-*/ * ' .&) 9 0 / * .0 / ('0/' *') ' 2 / 5' 9 *)C' 9 *5&' 30. , ' .2) 9 &)07 ' * ' ' # MM&' &01 , / *6*1' ' :' . , 01' 1(7. ' *)&' 501.0 / (201 , &5' 4 -' . 3 '' 3 , 0.&' +&)+&/5072 *)' 1.)&*C1' ' :' 1*/5* ' ')' %'+0' , * / 5*00* ' 5' 3 /' . , &' : ')&. , &*5 ' 2 / 0.0 / (' *.' . , &') ' ' .' ' :' . , &' / '1&' * / 5' 7' / .0 / 20 / (' . '' / &*)' . , &' .0+' N 4 -' . , &' / * 9 &' ' :' *25 , * , ' Y)01 , / *' 1.* 9 +&5' ' /' . , &' .& / + &1 ' 4)&* N * / 5' *) 9 1' J * / 5' 4 -' *' 7 '1&' / &7C *7&' ' :' ''0*1-' 1.* C' ' :' . ,)&&' 1.)0 / (1 ' 30. , ' *') ' 1*)-' ' :' ' / &' , 2 / 5)&5' * / 5' &0(, .' ') ' 149 &.0 +&1' &)&/ ' ' :' *' . , ' 21* / 5' 4&*51' 9 *5&' ' :' . , &' 1.&9' ' :' . , &' ''0*1-' ') ' ' , &1&' 3&*)' :' +&)+&/50' + *)')&5' 9 *)C' * / 5' *' , ')0_' / .* ' 3 , 0.5' 9 *)C' 4&.3&&/' . , &' &-&P 4)' 31 ' ; ') - , &:2 ' 9 *)C' ' :' *' , &06&0.&' 01' . ,)&&' , ')0_' / .* ' 0.. 1' ' / ' . , &' :')&, &*5 ' . , 21' ' ' , &' 7' 9 9 ' / ' * 9 &' : ')' . , &1&' 01' C&&. / *2 9 * 9 ' /' . , &' &*) -' 9 ') / 0 / (' . , &1&' 7' / 101.' ' :' 04 , ' ' .-' ')' 1*7)&5' *1 , &1 ' , &' *1 , &1' 1 , '2 5' +)' +&) -' , &' . *C&/ ':)' 9 ' . , &' :0)&' ' :' * / ' * (/ 0' , '.)*' A)* , 90 / ' 42.@9 *-' * 1 ''4&' . , &' *1 , &1' ' :' 42) / .') ; "' :)' 9 ' * / ' '4 *.0' / ' ' ::&)&5' . '' . , &' 5&0.-' , &' 9 *.&)0* ' ')' J4 , ' ' .-' * / 5' . , &' &: 0' *7-' ' :' . , &' 9 *)C' . , &')0+' ' / 5)* ' *)&' . , 21' 5&17)04&5' 0 / ' . , &' *21 , 0C , * / 5*^ F' , &' *1 , &1' ' :' ,)?&' 9 *5&' 30. , ' 4+)2 . ' 7 ' 3@52 / (' *)&' : , &' 9 *. &)0* ' :0. . &1. ' : ') ' . , &')0+' ' / 5)* ' < , '&6&)' F' 9 *)C1' . , &')0+' ' / 5)*' 30. , ' *1 , &E' * ()&&*4 -' . '')2 &' 01' +:0)0:0*5' > ' 9 ' 10 / 1' ' :' . , &' :0)1. ' * / 5' 1&7' / 5' 5&()&&' J 3 , '' 9 *C&1' 0. ' F' ' / ' , 01' : ')&, &*5' 30. , ' 2. ' . , &' 9 *:0.)*1 ' 4&0 / (' 0(/ ' 0@*:0. ' ' :' 0. 1' 60) . 2&' 30 ' 4&' +2)0:0&5' :) ' 9 ' &6&)-' 109 + &' 10 /] ' , &' 9 ' 5&' ' :' 9 *C0 / (' 0. ' 01' . , 21' *05' 5 ' :6 / ^ F' A&(0 / / 0 / (' 4&. 3&&/' . , &' &-&@4)' 31 ' * / 5' 7*))-0 / (' 0. ' . '' . , &0)' &H.)&9 0. -' . , &' 9 *)C' F' 9 *5&' 30. , ' . , &' . , 2 9 4')&6:.). &5' 4&. 3&&/' . , &' 055 &* / 5' . , 0)5' :0 / (&)1' 0*7* &5' . , &')0+' ' / 5)*]' , &' +)&+*)*. 0' / ' ' :' . , &' *1 , &1' 01' *. . &/5&5' 30. , ' *&)&:0H' / 0&1' * / 5' . , &' 21&' ' :' / J* / .)*1 ' +:050&1')' , 06*' *1 &. 071' 19&*)' * ' 60104 &' +*). 1' 1' :' . , &' 4' 5-' 30. , ' . , &' *1 , &1 ' :.&)' *4 2. 0' / ' 0 / ' . , &' ' :.1&' ' :' * ' 3 , '' *)&' / ' . ' *17' . 0' 1' . 0 . , &' 04 , ' ' . -' 01')&+ *7&5' 30. , ' 1*/5* @+*1. &')' 1 , * / 5* / * 9 ' .)07. ' 9 *). *')& 0(0' / 01. 1' *55' *' 3 , Y&' 0)' .. *)' 1+' . ' ' / ' . , &' 7&/ .)* ' 0 / &' ' :' . , &' C&&. / *2 9 * 9 ' , 01' 0 / 5&&5' ' :. &/' . *C&1' . , &' + *7&' ' :' . , &' . ,)&&' :0 / &1' 0J0' . , &' +)' 7&11' ' :' *++ -0 / (' 1*/5* ' * / 5' 01' . , 21' 3 ') / ' 52)0 / (' . , &' 5*-' , &' 70)72 *)' 1+' . 01' 7* &5' +' .. ' '' 0 / ' . , &' G)*605J*/ ' * / (2*(&1' :0' 77*10' / 1' ' :' 9 ' 2) / 0 / (' . , &' +&. . ' '' 01' &0. , &)')244&5' ' :' ')' 9 *5&' ' :' 3 , 0.&' D ' 1.' ' :' . , &' 294 ' ')-' A):. , 9021' ' :' . , &' < &1.' ' *1.' *)&' W , 06*' 3 ')1 , 0++&)1 ' ') ' ' , &06*' < ' 9&/' 3&*)' *' ')091 ' , '+' . . ' '' 9 *5&' ' :' . 2) 9 &)0 ' * / 5' 09&@J207&' ' - , ' 2 (, ' . , &' *-*)1' ' :' D * *4*)' *)&' &01 , / *' 60.&1' . , &-')&. *0 / ' . , &' ' 5' , 06*' 9 *)C' ' / ' . , &' :')&, &*5

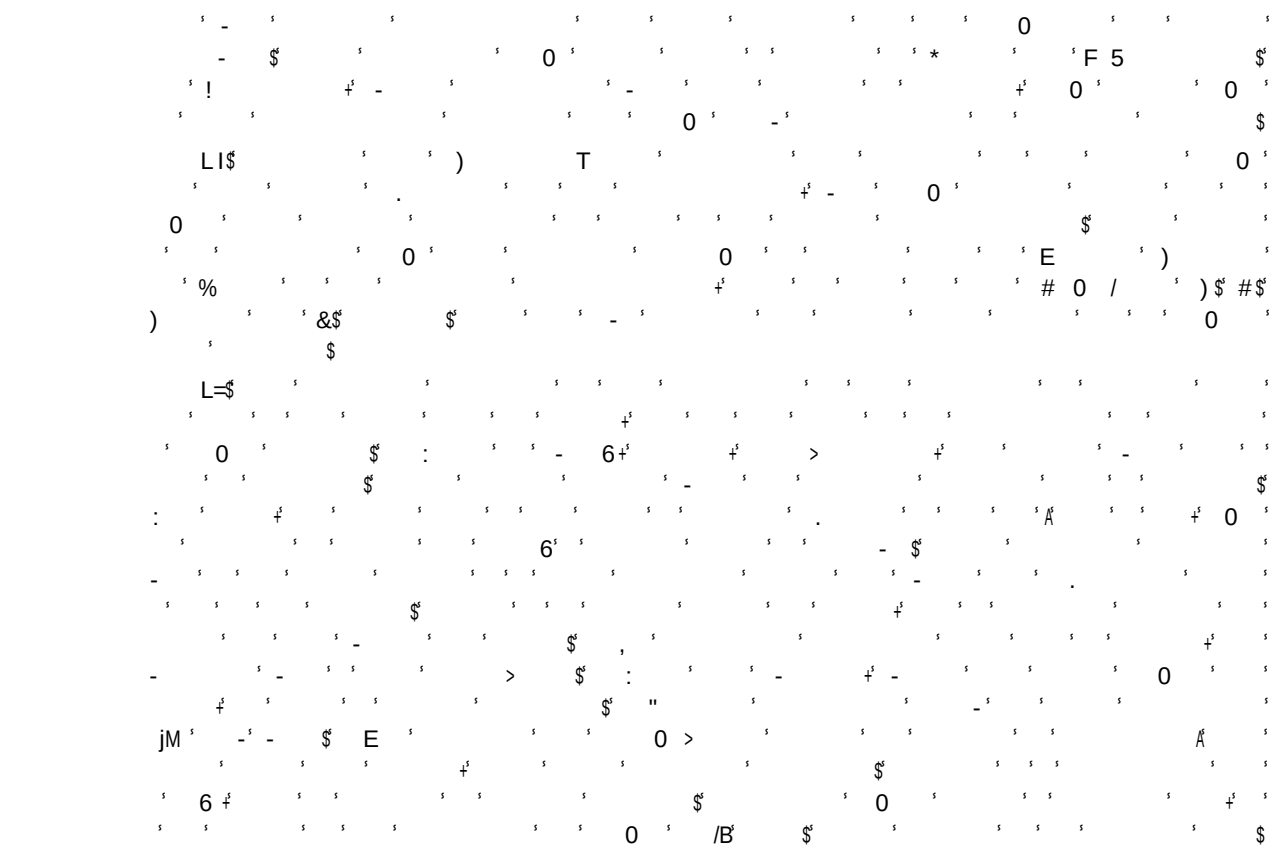


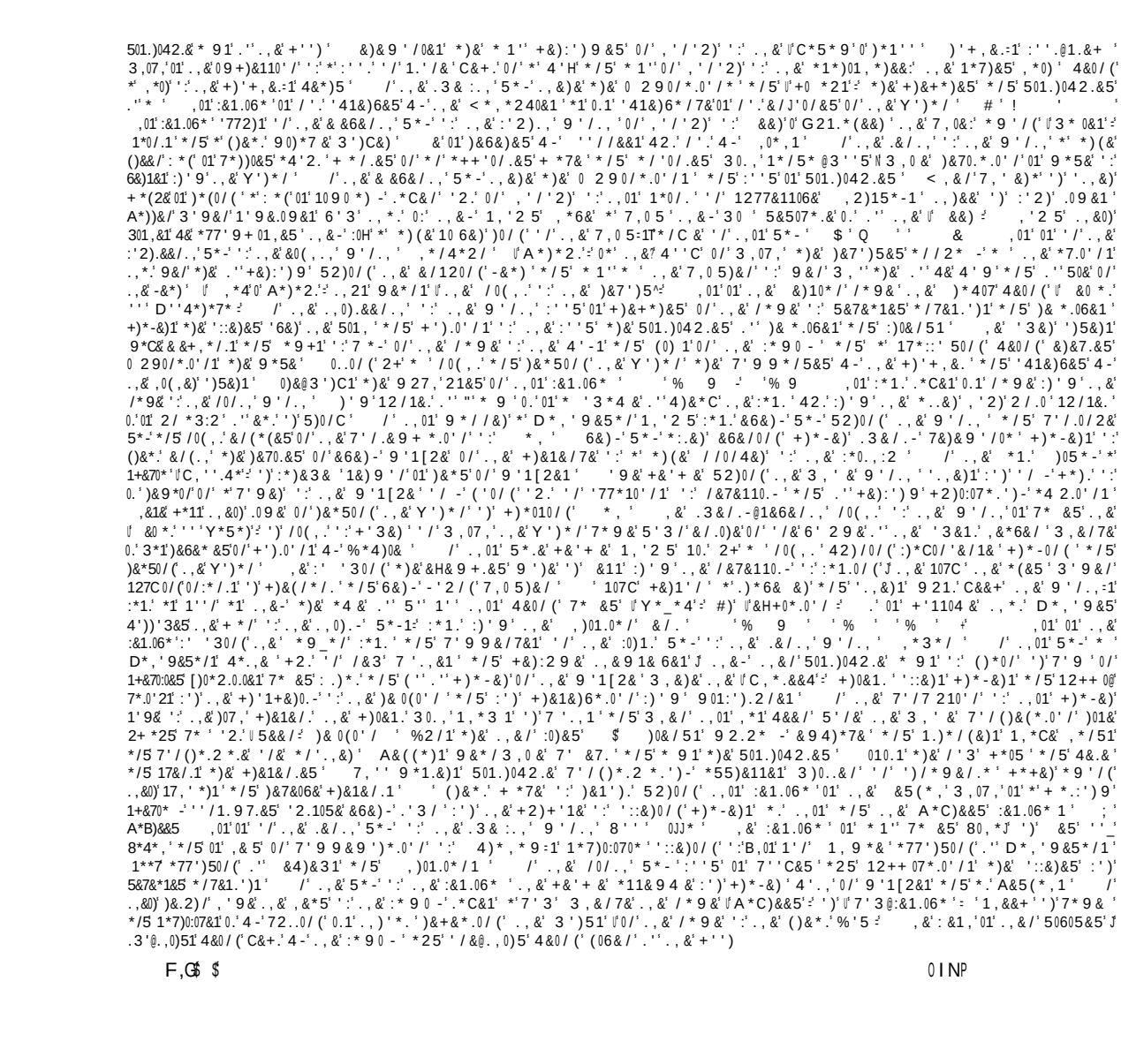


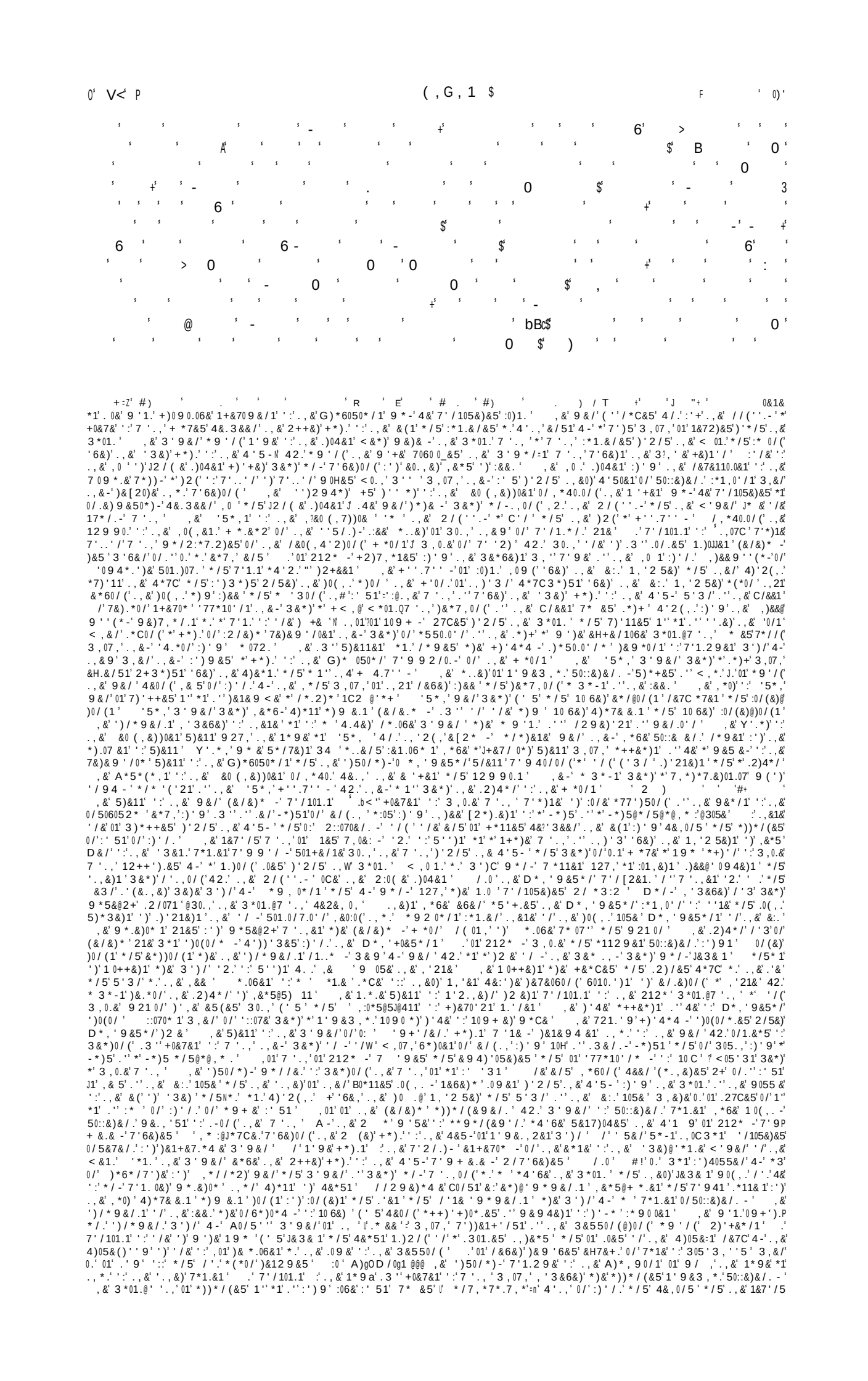


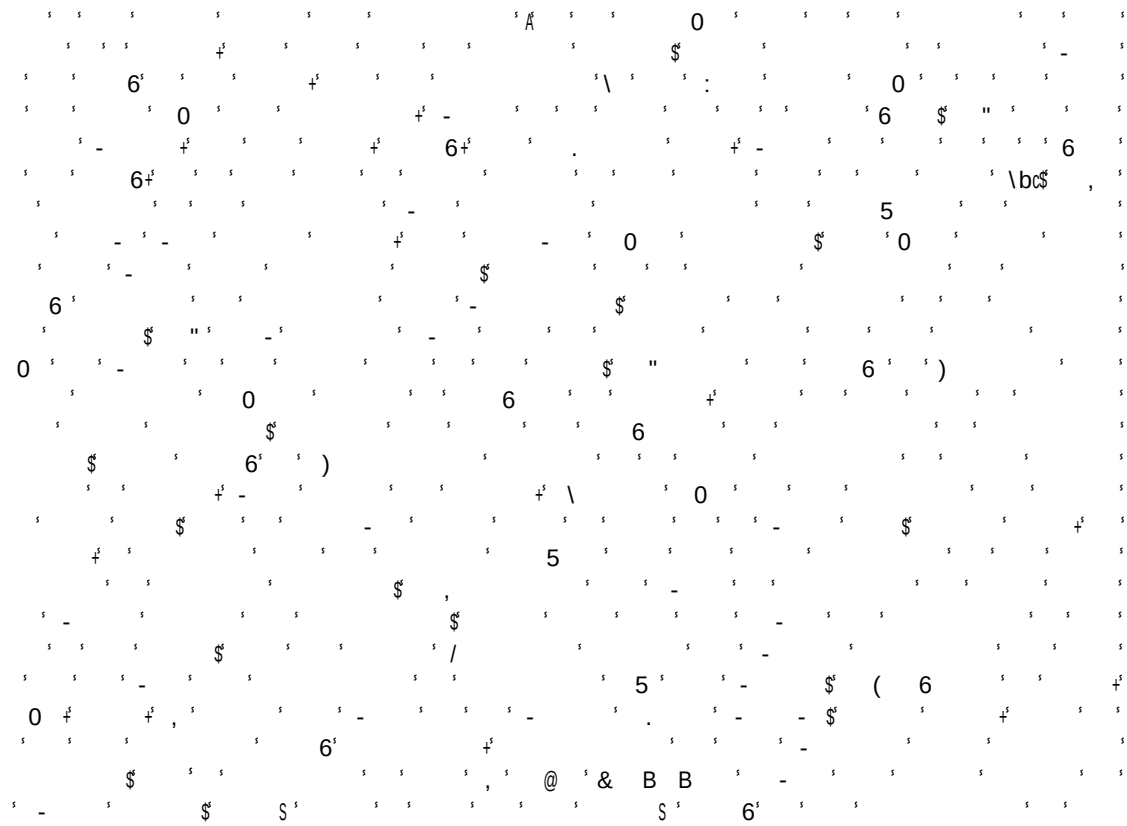












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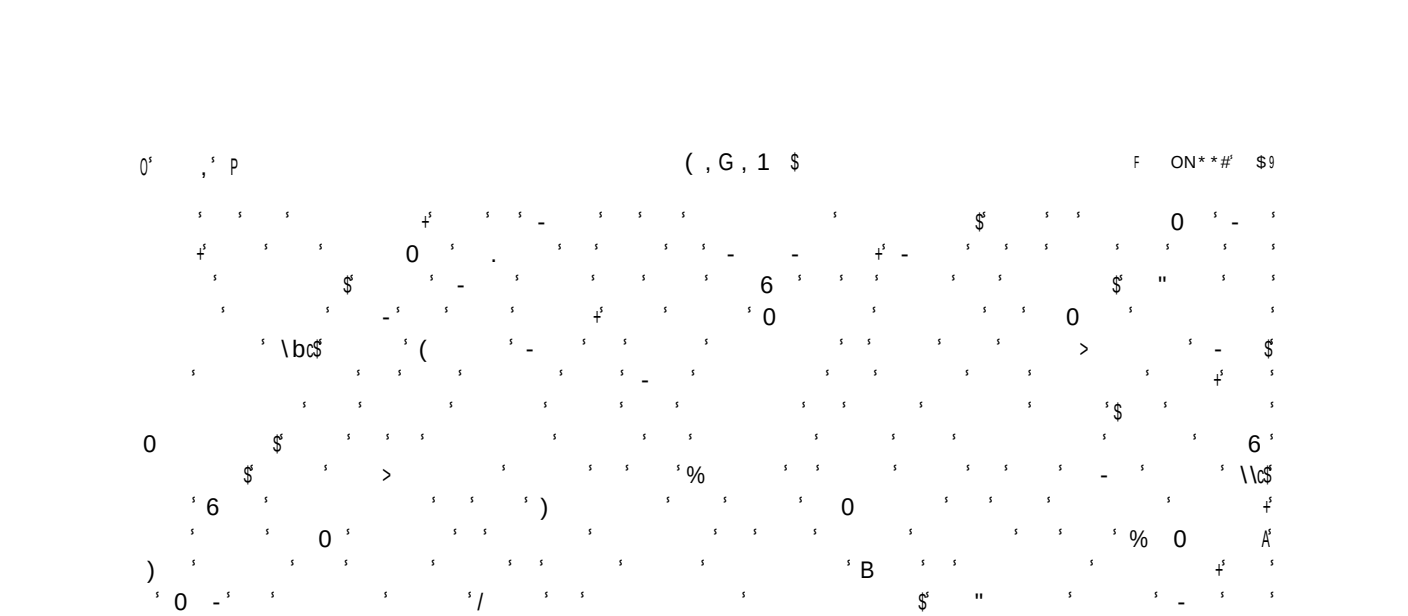

#) ' V E' ' ' ' ' # . ' \. 0&')25&1.' .-+&' ':' '2.,' /50*2' 2/)01' 9*-'+'1104 -'.&'
)&:&))&5' 4*7C' .'' *' .09 &' 3 , &/' *')*7&' &*) 0&)' ., *'/'., &' G)*6050*/' .*7&' 3*1' 1+)&*5' '6&)' ., &' 9*0/ */5' /5' 1*/51' ,&'
21.)* */'4''9&)*/(' 01' 1.0 ' 21&5' 0/' .,&' ''5''7'..*,' .*.&'0+')0',0/'+' -' 501.)07. ' ,01')9',*5'0.1'')0(0/'0/ *'
3''5&/'724'.,&'5017'6&)-'':' :' 0.1'+*).072 *)'72)6&' 4&0/(' /''5'24.'*7705&/.*' ?.,&' */2' /*9&'01' Ⅱ * J' ')'4&/.'
1.07C' ' 3&6&)' .,&' */17)0.' 3)0.&)1'*1'' ,*6&'*'/*9&':')'127 'P*/'0/1.)29&/.' 3,07,' ,&-'7* ' *1.)*'')'F'17*..&)&)]'
,&')91'1.0 '21&5'4-'.,&',0 @.)04&1'9*-'4&'.*C&/'*' .-+&1'':'*/70&/.' <*)'3&*+'/1' ,&'Y,'/51'21&',&'10/('.41'
4'3'*/5'*/'*H&' 30.,'*' '/)0''/1-@'.)6&5'4*5&'*/5' '0(,.',:./5&' 1.)&/(.,&/&5'4-'4)*11+*.&' /5'30)&' ,&'Y &1'
21&' *' 1,')..' *H&' */5' *' 4'3' ,&' ''')(' 7*))0&1' *'1,')..' 5*((&)'0/' ,01' 3*01.' */5'*' 1.)'/('C/0:&'4&,0/5'.,&',*/5&
4&0/(' 1.27C' 0/' ,01'(0)5&' 3,0&'.,&' 4*5&' 0 1'/*,&5'*/',014,'C' ,&1&' C/06&1'*)&' 2)6&5'1''*1'.'' 4&' *1''21&5'*1
40 @,''C1':')'7&*)0/('J2/(&' *1+*)' '))&*'3,'' 6010.&5' /50*'0/' ! "'5&17)04&1'*' *-*)'*1')9&5' <0.,'Ⅱ*'.,0/'
)'2/5'1,0& 5'-' */5'Ⅱ*' /*C&5T13')5' 30.,'*/'0)'/',0.'' .,&'13')5'3*1' $'0/7,&1' '/(' */5'4)'*5'*'.',&'+0'/.-' *17''
5*'%*9*'5&17)04&1'1090*)'13')51' ,&1&'.,&' *-*) 1B0 <&*)' /'.,&)'.-+&''':'13')5'01'.,&'(*2/.&'.',0.&5'30.,'
)*+0&)@4*5&':')9&)-'21&5'4-'.,&' B*,)*..*1' /50**01',*6&'927,') +&7.':')'.,&'1<')5'*/5'.'',01'5*-'1'2.,19'
.)04&1'*590/01.&)'*/''*.,''/'0.' '1.'':'.,&':')91':-' '2.,' /50*/'13')51' ,*6&'4&&/'4')) '3&5':)'9'7'/[2&)0/('
)*7&1'42.'.,&'9&.*'01'0/50(&/'21'*1' '2.,' /50*/'1.&&',*1'4&&/':*9'21':)'9'*'6&)-'&*)-'+&)0'5' ,&-'9*-'4&
'7*11&5'*77')50/('.''.,&':')9'':'.,&'4*5&'0/.''17090.*)1'1*4)'1')*+0&)1'*/5'72.@*/5@.,)21.1' ,&)&'*H&'*1''.3'@
,*/5&5'13')51'*/5'1*7)0:070*'13')51'1.,&'*..&)'4&0/(',&*6-'3&*+'/1'30.,'.3'@,*/5&5',0.1'*/5' 2)6&5'.,07C@4*7C&5'
C/0:&@0C&'4*5&1' ' 6&)-'&H.)*')50/*)-'3&*+'/',*1'4&&/'.,&'1.&&' *11''2.&5'.''5&7*+0.*.&'*':-0/('&/&9-' ,&'
1,*+&''.',&'*H&'3*1')0(0/*-'4')))'0(0/*-'4')')'.'/'.,&'.''':'1'9&'7*)/06')'21'*/09*'127,'*1'.,&'.0(&)' ,0&51'&9')&
212*-'9*5&''':42::*''')'&&+,*/.'1C0/'1.)&/(.,&/&5'<0.,'1.&& ' ,&'9'1.')& /.'[2&1.0'/'01'.,*.''':.,&'0/.)'527.0'/'
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/'.'C/'3/'42.'0.'3*1'5'24.&11'+&.)'&29'')'1090*)'0JJ:*9 9*4&'90/&)*''0' \.&10*1'';';'A '9&/.0''1'*/''0'21&5'
4-'.,&' /50*/1'3,07,'3,&/'1&.' '/':0)&'7'2 5'' /-'4[' &H.0/(201,&5'4-'1.0:0/('0.'30.,'925' 0&/'[2'.&1' .&10*-'1
*77'2/.'30.,'*550.04/1' ,0'1.)*.2 '1.*.&1'.,*.',01'/0''01'(5.':)'9'*'<')9'1&6&/'7240.1' '/('4-'3,07,'.,&'7)'750&
01'+&),*+1'9&*/.' ,&'90110&1'7'/.*0/0/('.,&'7'9+'10.0'/'3&)&'':.&/'5017,*)(&5'.,)'2(,'.24&1' &(*.06&'&605&/7&'*1'
)&(*)51'.,&'21&':'(2/1'0/'*/70+2.' G' ! #' ,&-'7'/101.&5'*.':0)1.' ':'*'109+&'9&.*'.24&'*..*7,&5'.''*'1.)*0(,.'+0&7&':'3''5'
30.,'*'.'27,@,'&'.''3,07,':0)&'3*1'++0&5'.+'0((0.&'.,&'7,*)(&' /'*56*/7&':0'.,01'3*1'.,&'9*.7,'7C'1.0'21&5'4-'
J2/(&@.)04&1' ,&':0)& '7C'30.,':0/.'*/5'1.&&'3*1'0/6&/.&5'4-'.,&')&/7,'0/' # !'*/5'0/.)'527&5'0/.'' /50*'1241&P
[2&/.'.''.,*.'5*.&' /50*/'7*/''/'3&)&')0(0/* -'9*5&':' 4*)1'':'0)'/','+*&5'.'(&.,&)'42.'*:.&)3*)51'4)*11'*25'
4)'/_&'3&)&'*1''21&5'*/5',&(2/1'3&)&'7*1.' '7,*)'3*1.,&':0)1.''':'.,&'D'(,2'&9+&)')1'.'' +*-'*..&/.0''/.'.'',&'
7'/1.)27.0'/'*25'&[20+9&/.'':*).0 &)-' 2)2/(_&&4':' '3&5'*/5',01'*)9''/)-'7'/.*0/&5'!;'')'#;':0&5@(2/1''':4)'/_&'
$;'7*//''*25' ;;'')' ;;'0(,.'7*9&'(2/1' -5&)'*/5' 0++&5'+*7&5'()&*.')&0*/7&''/.,01'4)*/7,''':.,&0)')9-'*/5'
&9+'-&5')&/7,'*/5' /(01,'*).0_,..1.''12+&)0/.&/5.,&'9*/2:*7.2)&'':'.,&0)'')5/*/7&' %2/+'35&)'3*1'C/'3/'
0/' '2.,&)/' /50*''/('4&:')&'0.'3*1'++0&5'.''0)&)'*)6&5'3')C' ,&'0/.&)0')'01'':.&/'5*)C' ,&'*+*).9&/.1'30.,0/'
)&'4/ .')'2/5'/'+&/'7'2).'+*6&5'42.'/'.')''':&5' /'.,&''+&/'7'2).'.,&'5'')1''':'.,&'0/'&)')''91' +&/' /')(&',*21&1'.,&)&'01':.&/'
'1&7'/5'19&)'7'2).'*/5'*19*'(*)5&/' *3& '01'5/('0/105&'.,&'7'2).'-*)5':')'7'/6&/0&/7&':'*77&11' ,&'91&)
&)1+&7.*4&'/*.06&',*21&1'.,&)&'*)&'*'()&*.'9*/-'1&+*)*.&'420 50/(1'Ⅳ1'9&':'.,&9'':*)&:.. -'1&7 25&5':') .,&'21&':'.,&
6*)0'21' 9&94&)1''':'.,&':*90-'*/5'.,&0)' 306&1'*/5'7,05)&/'30.,'1.')&@)''01'7''C0/(@,'21&1'*/5':.&/'*'19*'
5'9&1.07' .&9+&'0/''/&'7')/&)'':'.,&'+&/'7'2).-*)5' *4&1'*/5',*0 1'*H&'/.'':&3'&*).,&/'*/5'/&.*'1'*/5'*4&' ':&3'&*).,&/'*/5'/&.*'1'*/5'*4-'42)/0/('406*6&
1,&1':'2/5'0/'*42/5*/7&''/'.,&'1&*@1,')&'*/5'0/'.,&'4*7C3*.&)1' ,01'01'*'+&):&7.'3,0.&'*/5'3,&/'+)'+&) -'*++0&5'
/5'+'01,&5''C1'0C&':0/&'3,0.&'9)4&' ,&'7&00/(1')*:.&)1'*/5'4&*91'*)&'':'.&*C'J*7C''')'+* 9-)*'3''5'*/5.,&'
)''':01'7'6&)&5'30.,'19*'.0&1'':'42)/.'7*-' ,&'53& 0/(1'':'.,&'+'')&1.'/*.06&1'7'/101.''':':2)'925'3*1'30.,'
3''5&/')*:.&)1'*25'()*11')'+* 9@&*:.,*.7,' D*/-',/.1'*)&'7'/1.)27.&5'3,'-':)'9'.,&'&*:'*25'1.&91''':.,&'
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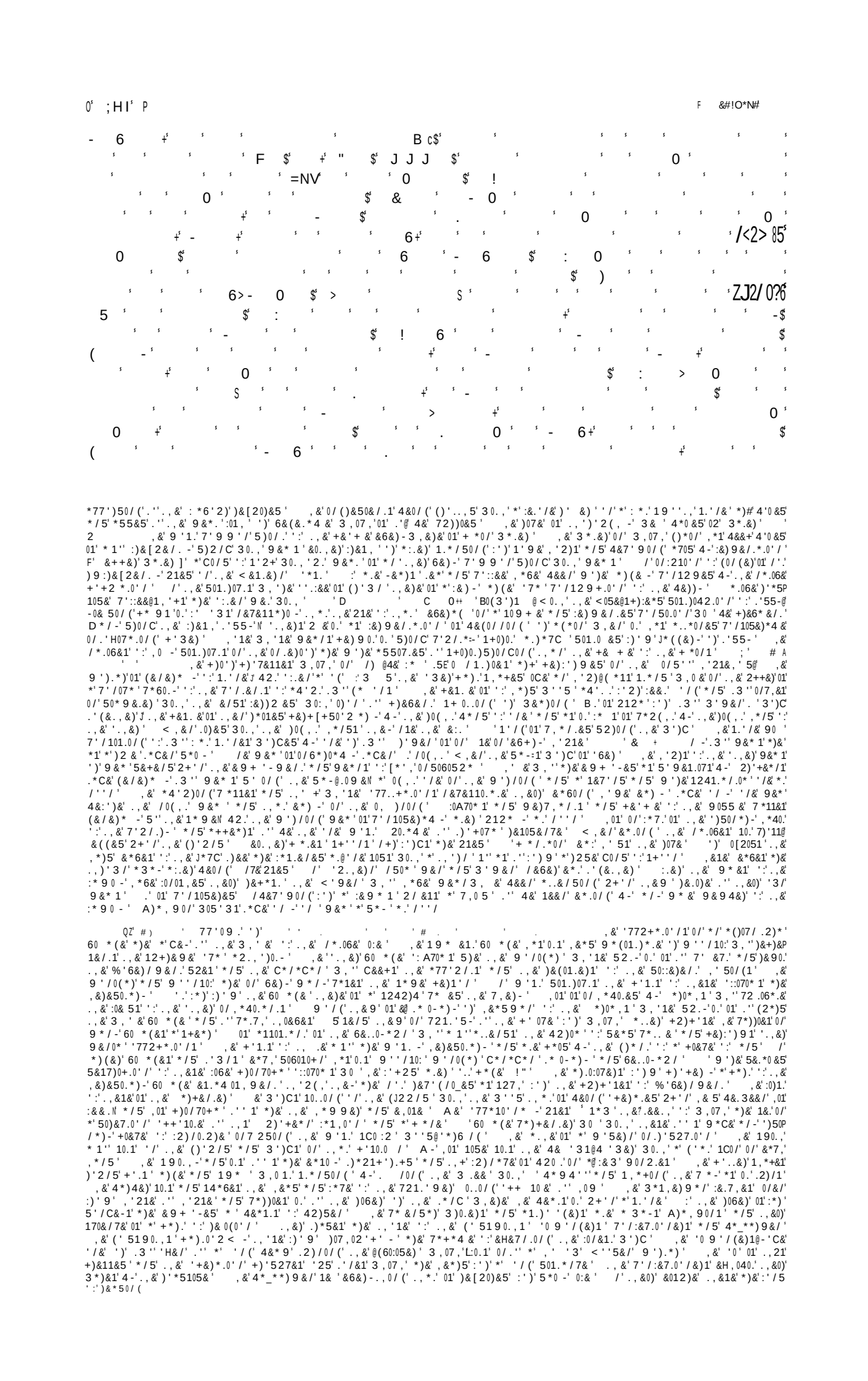
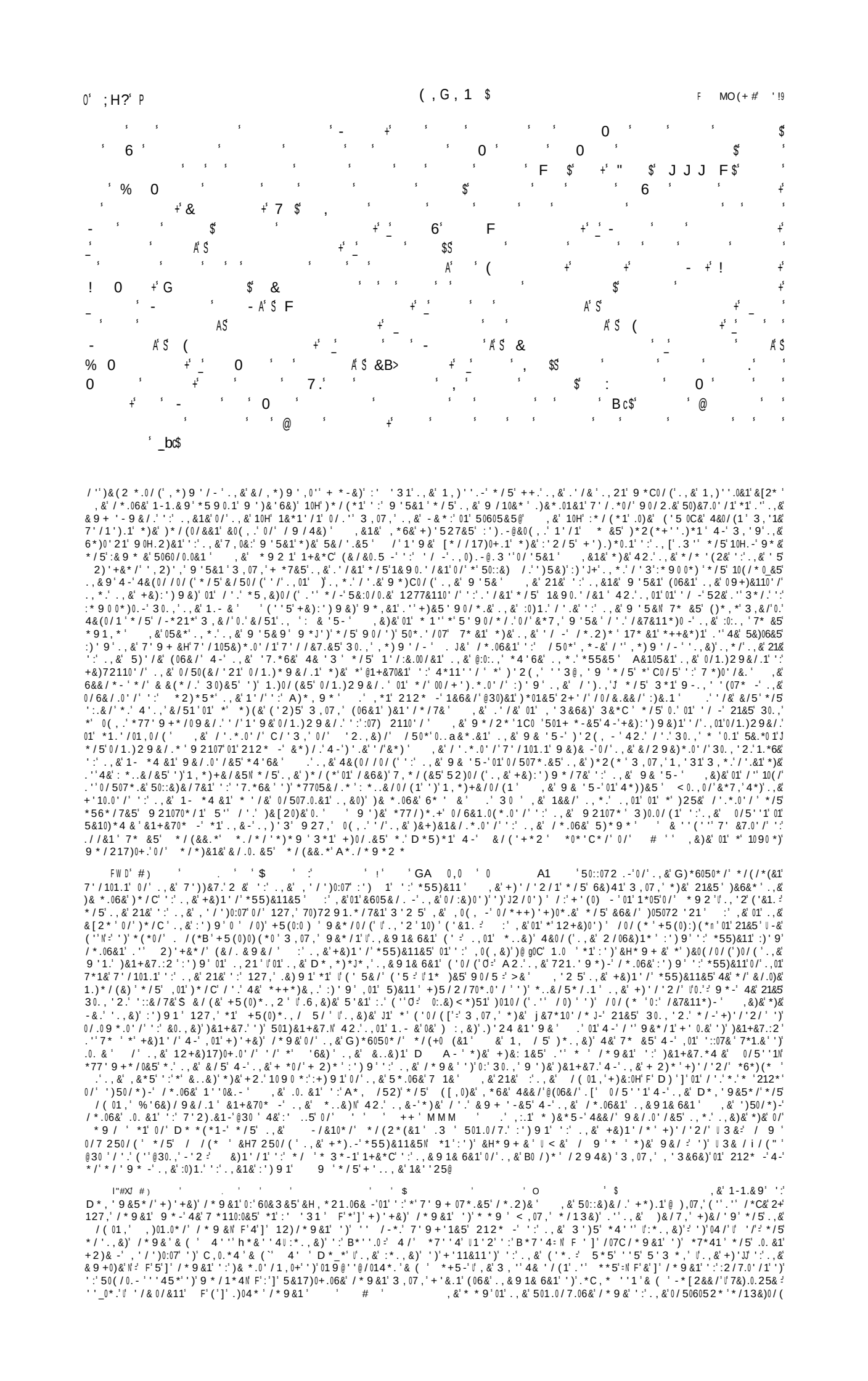
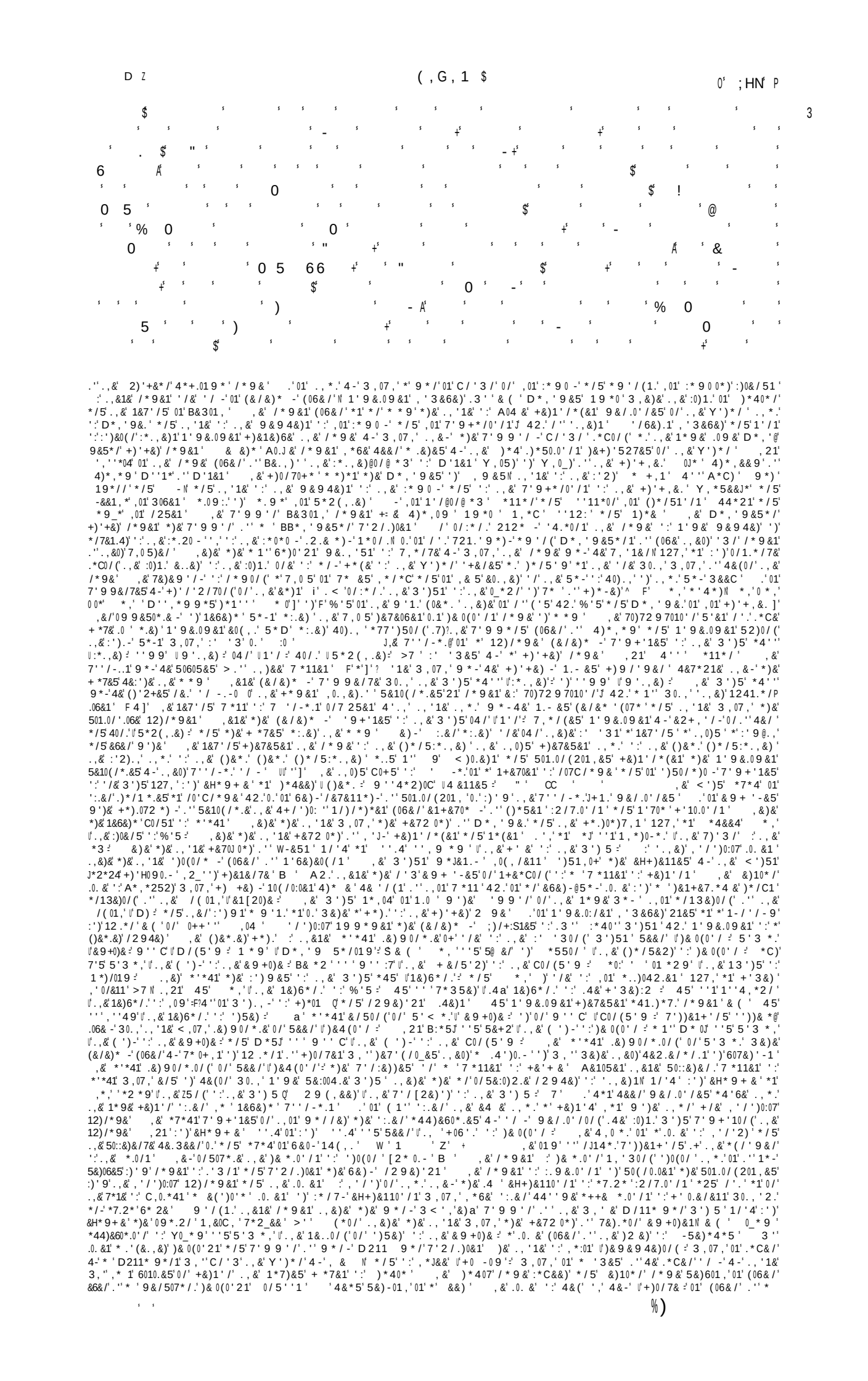
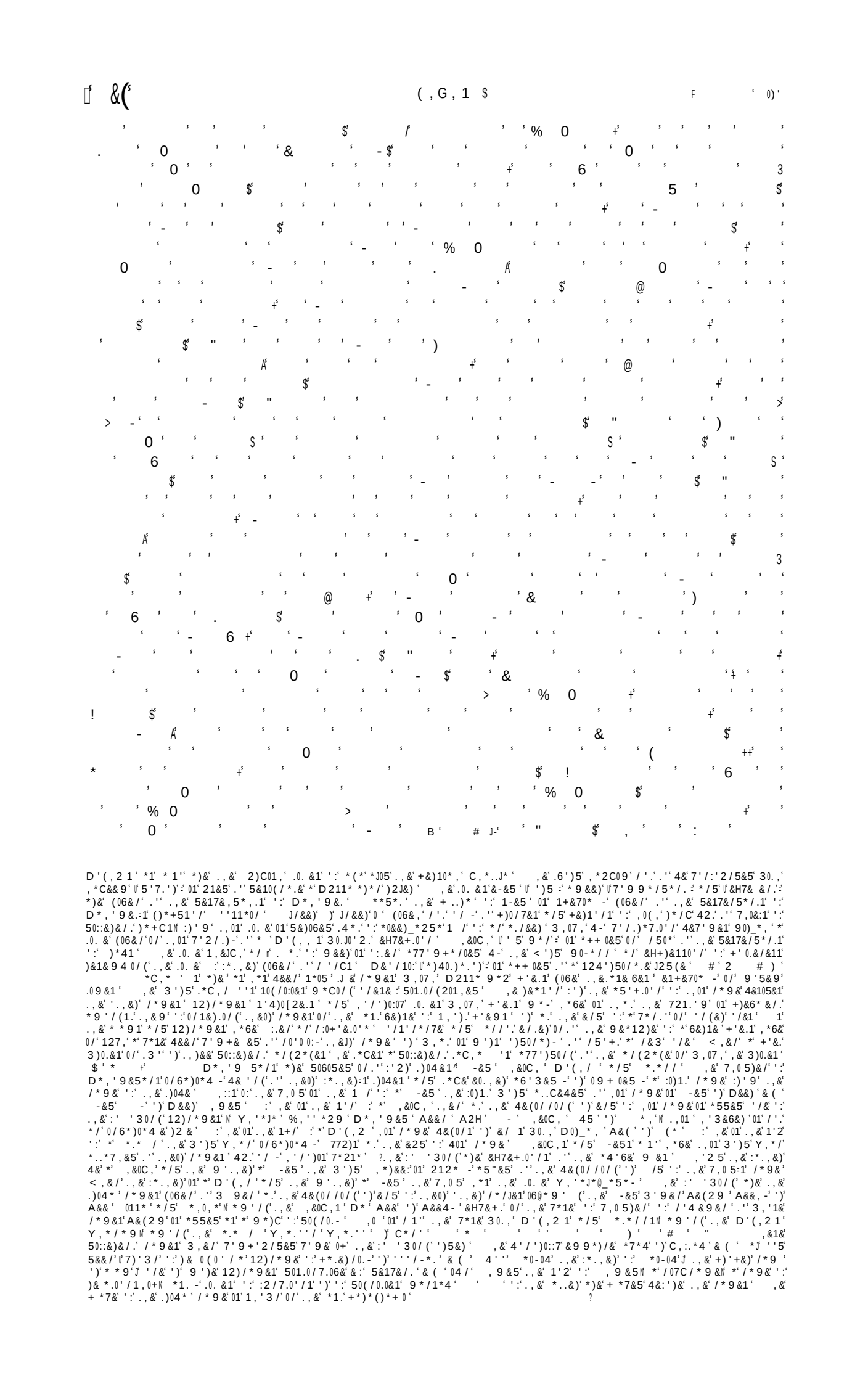
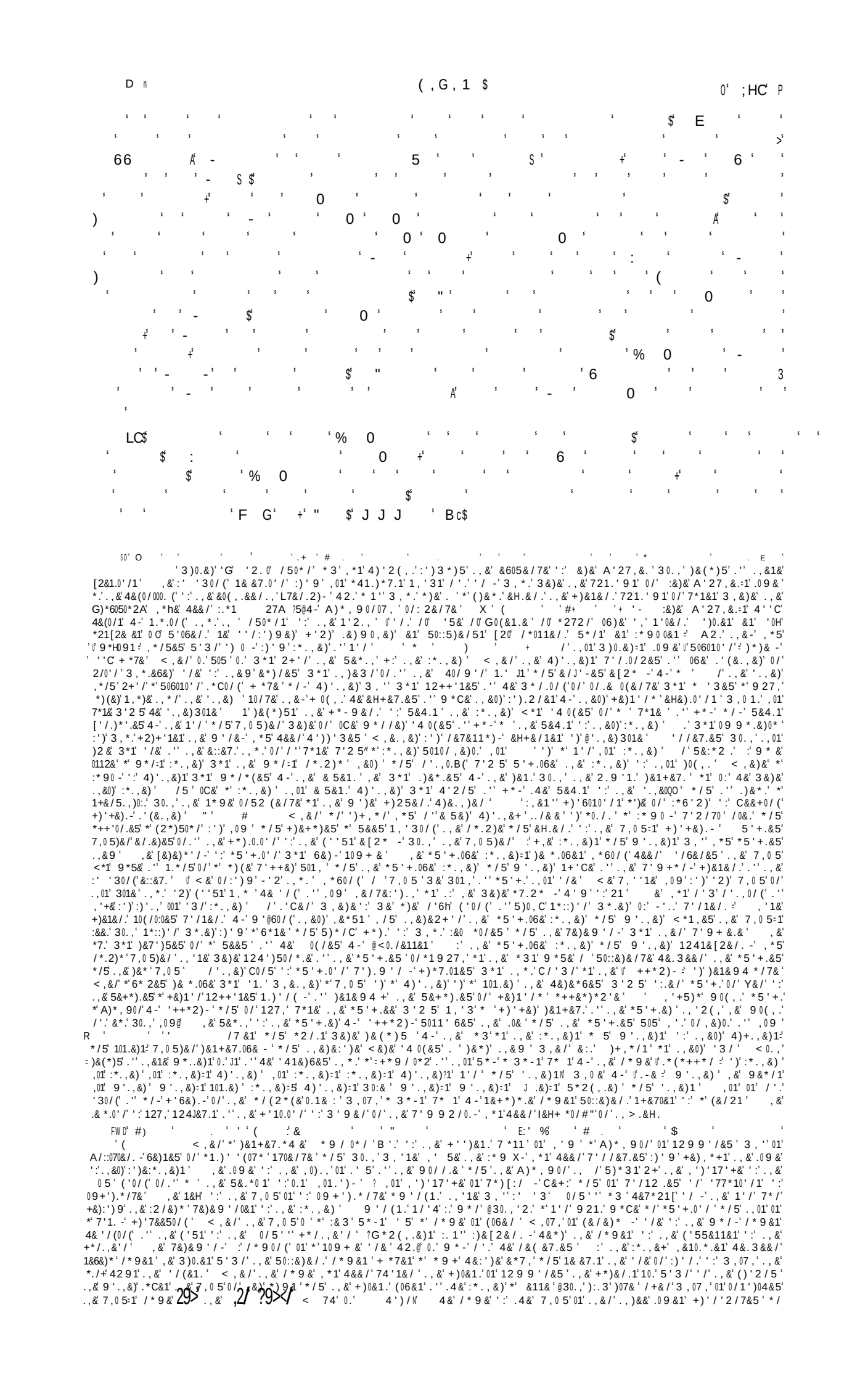
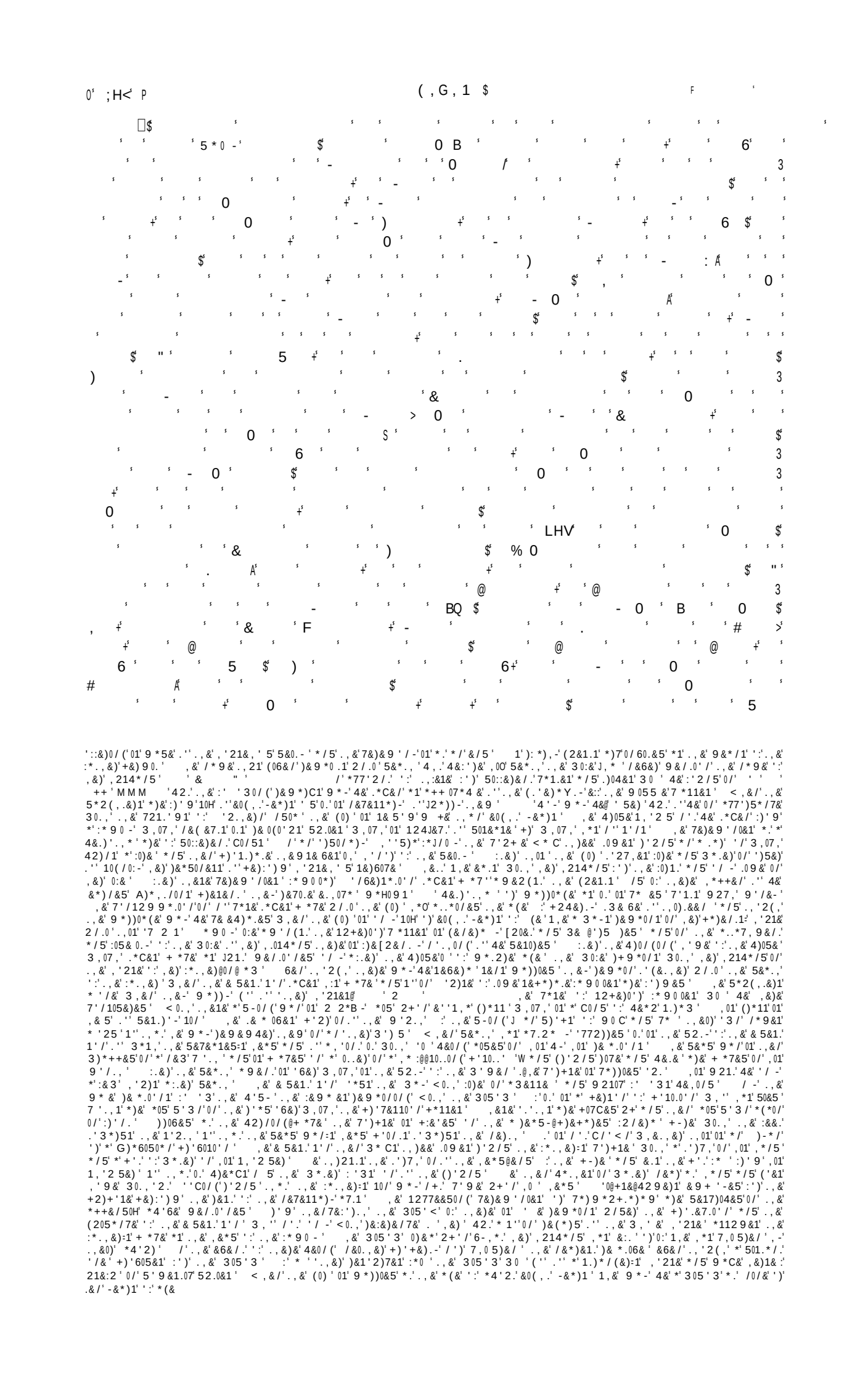


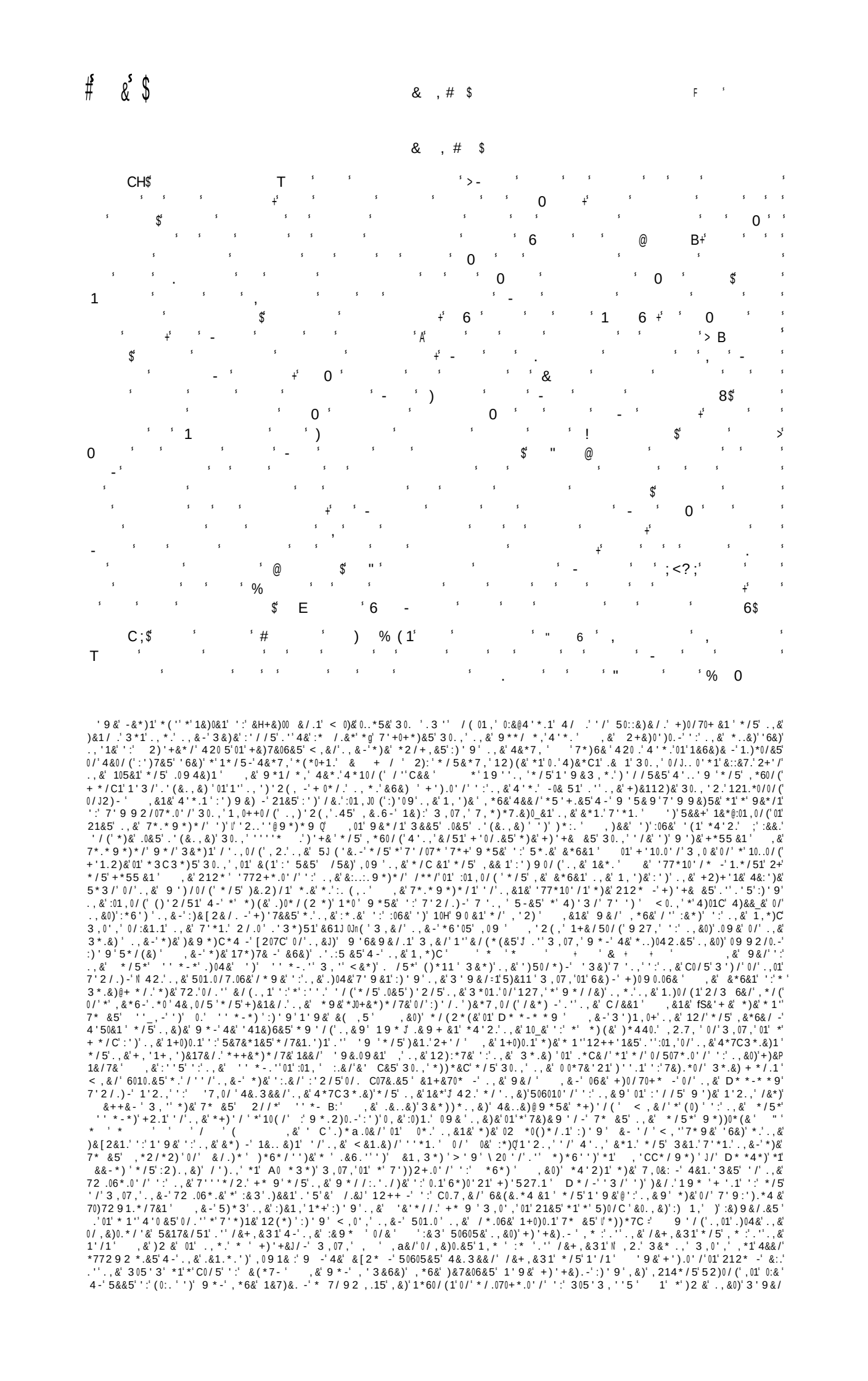


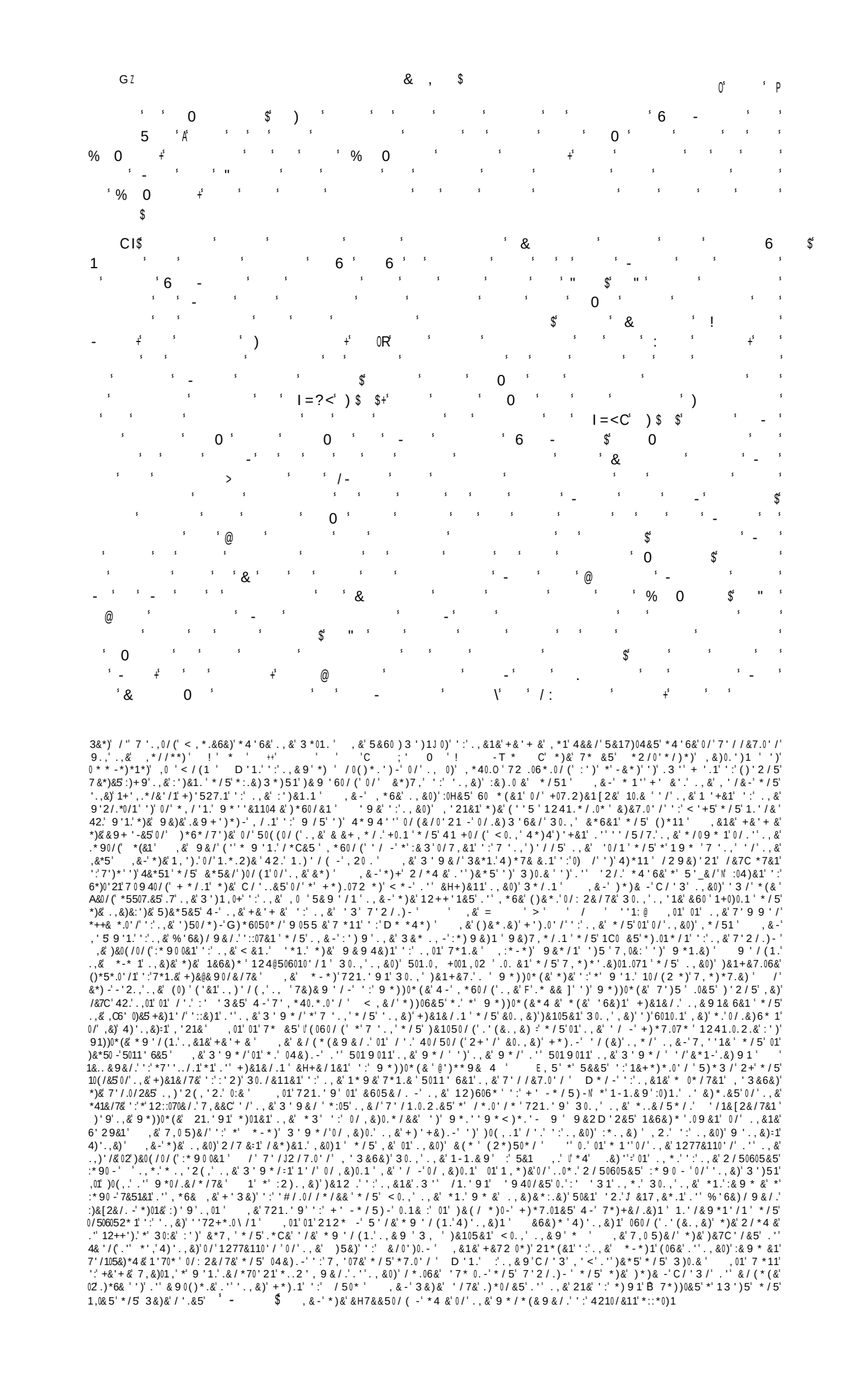


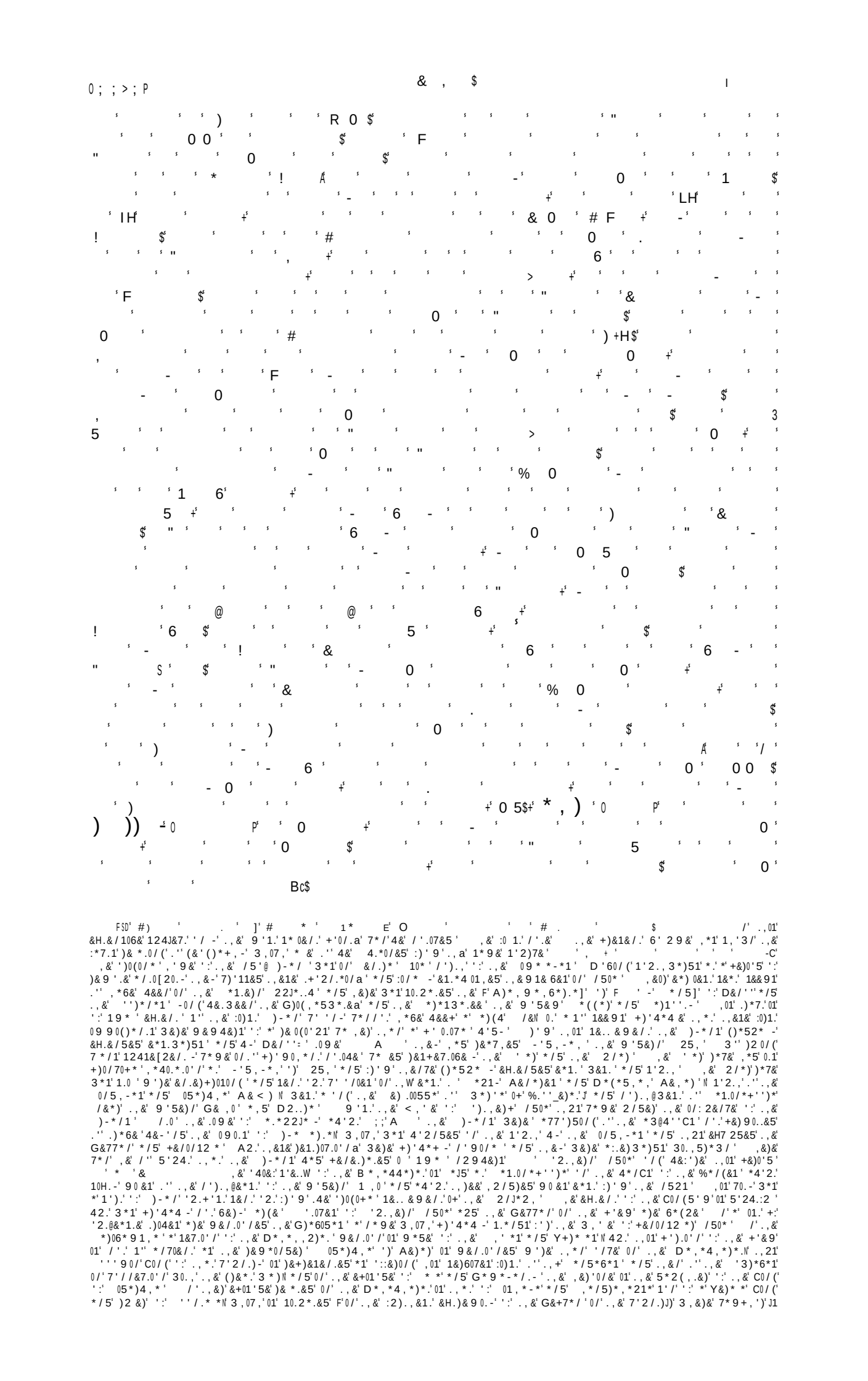


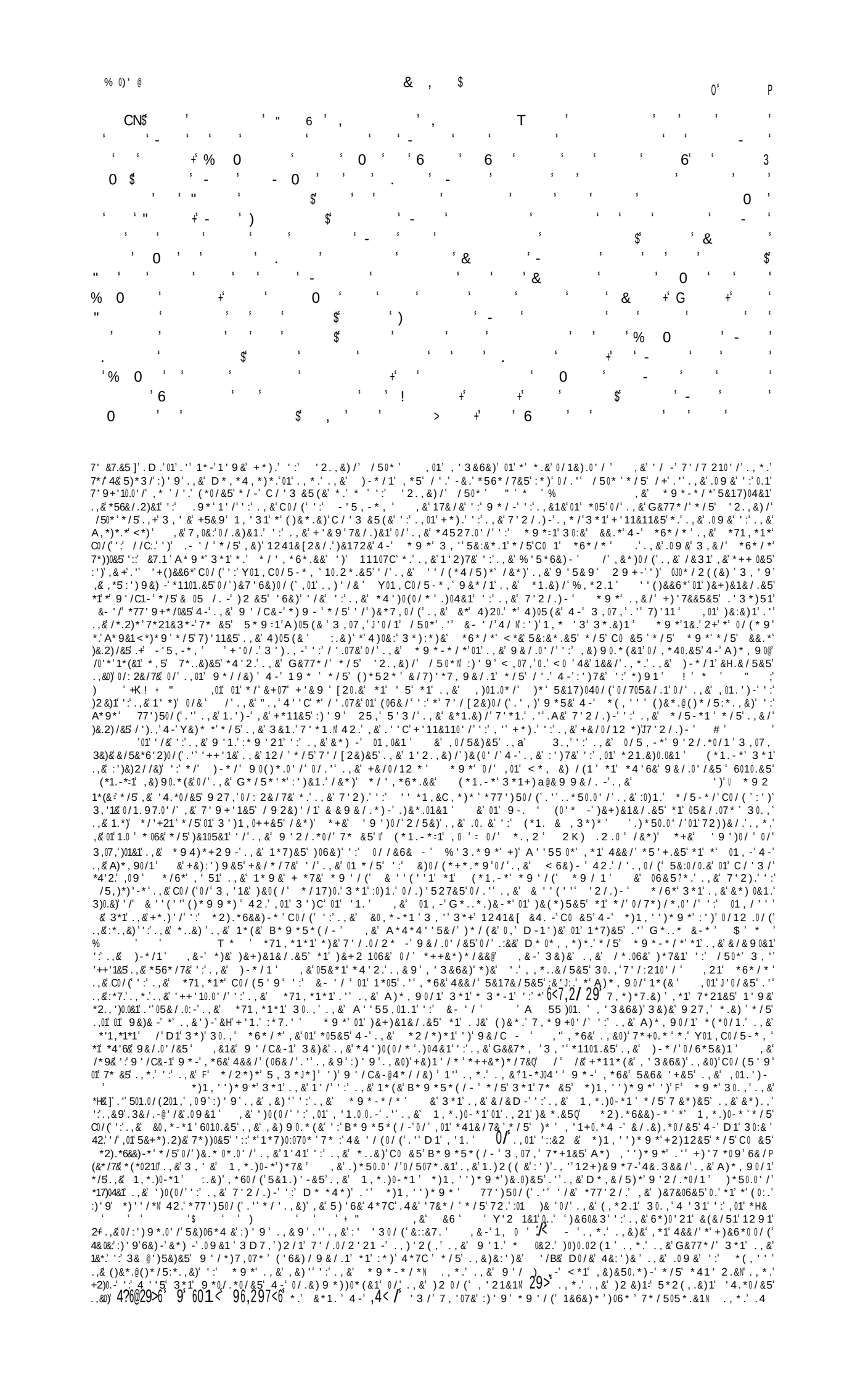


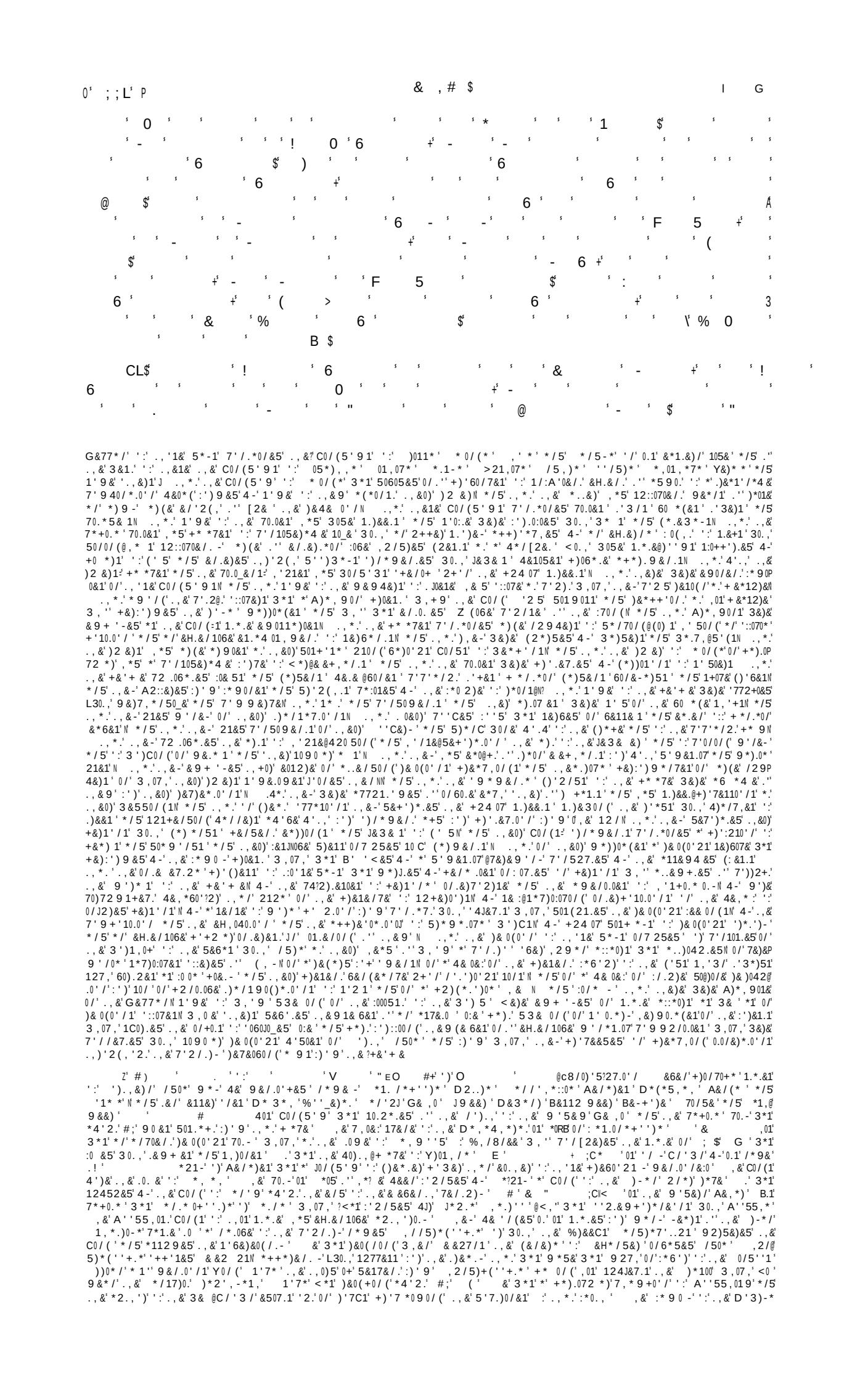


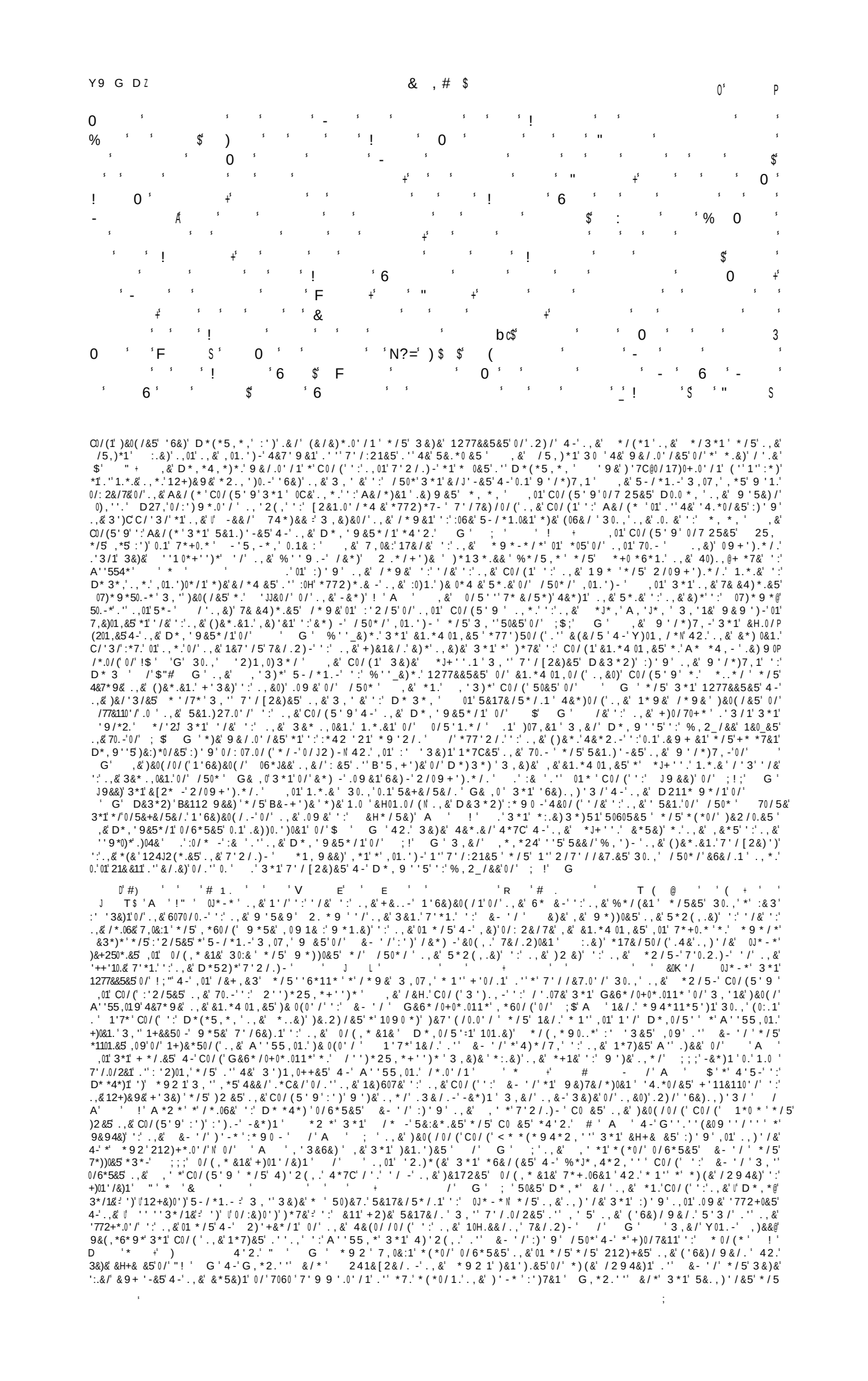


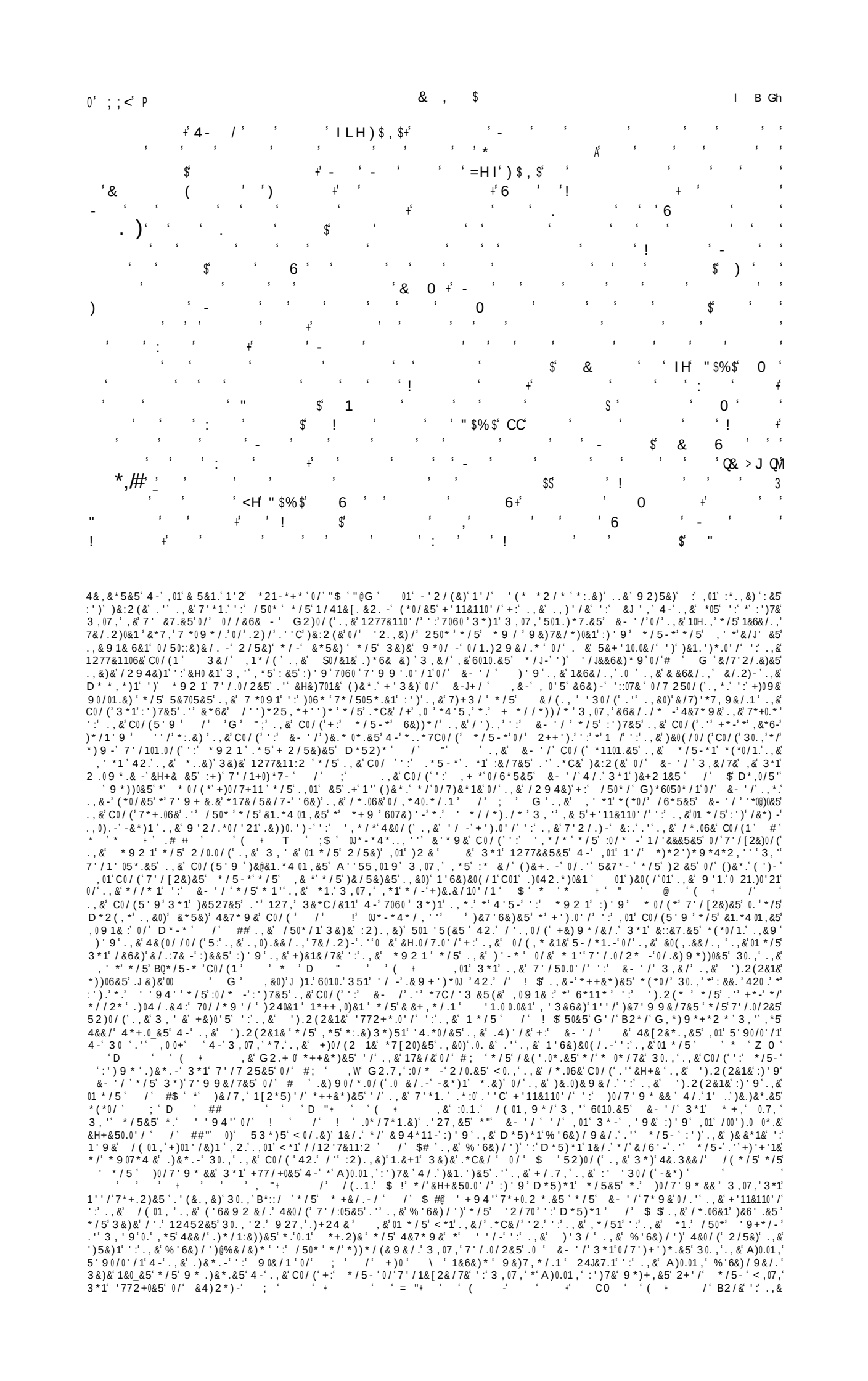


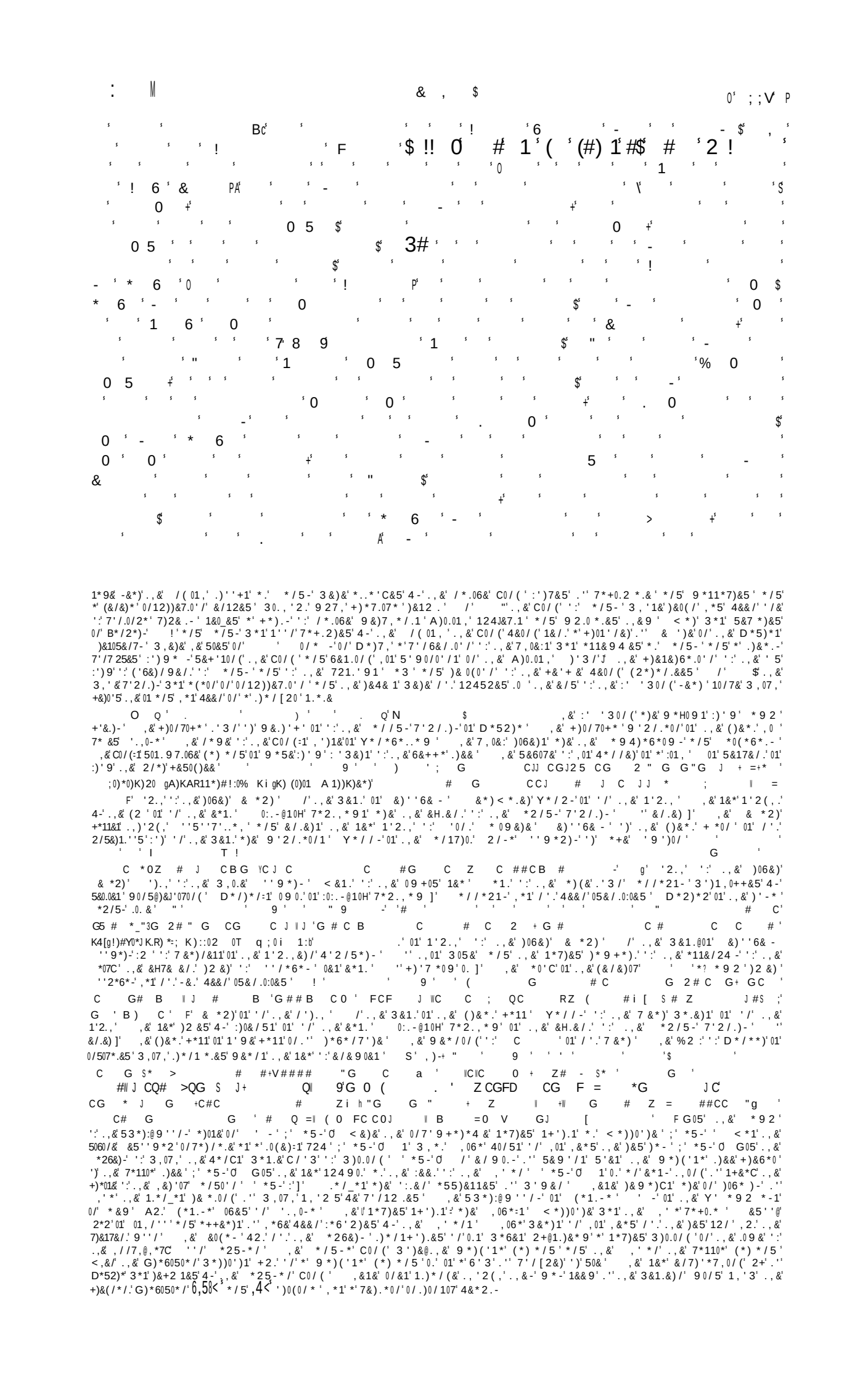


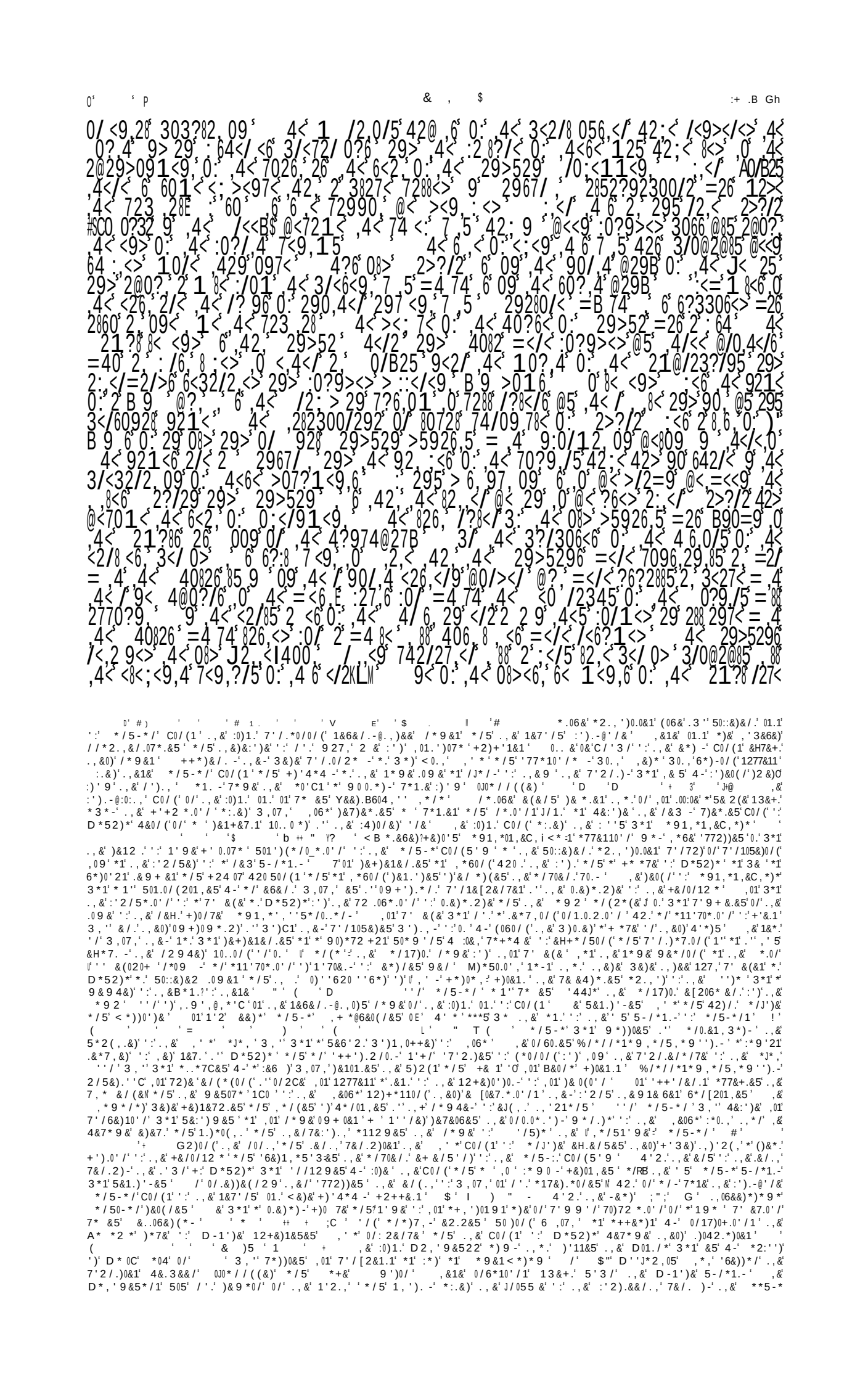


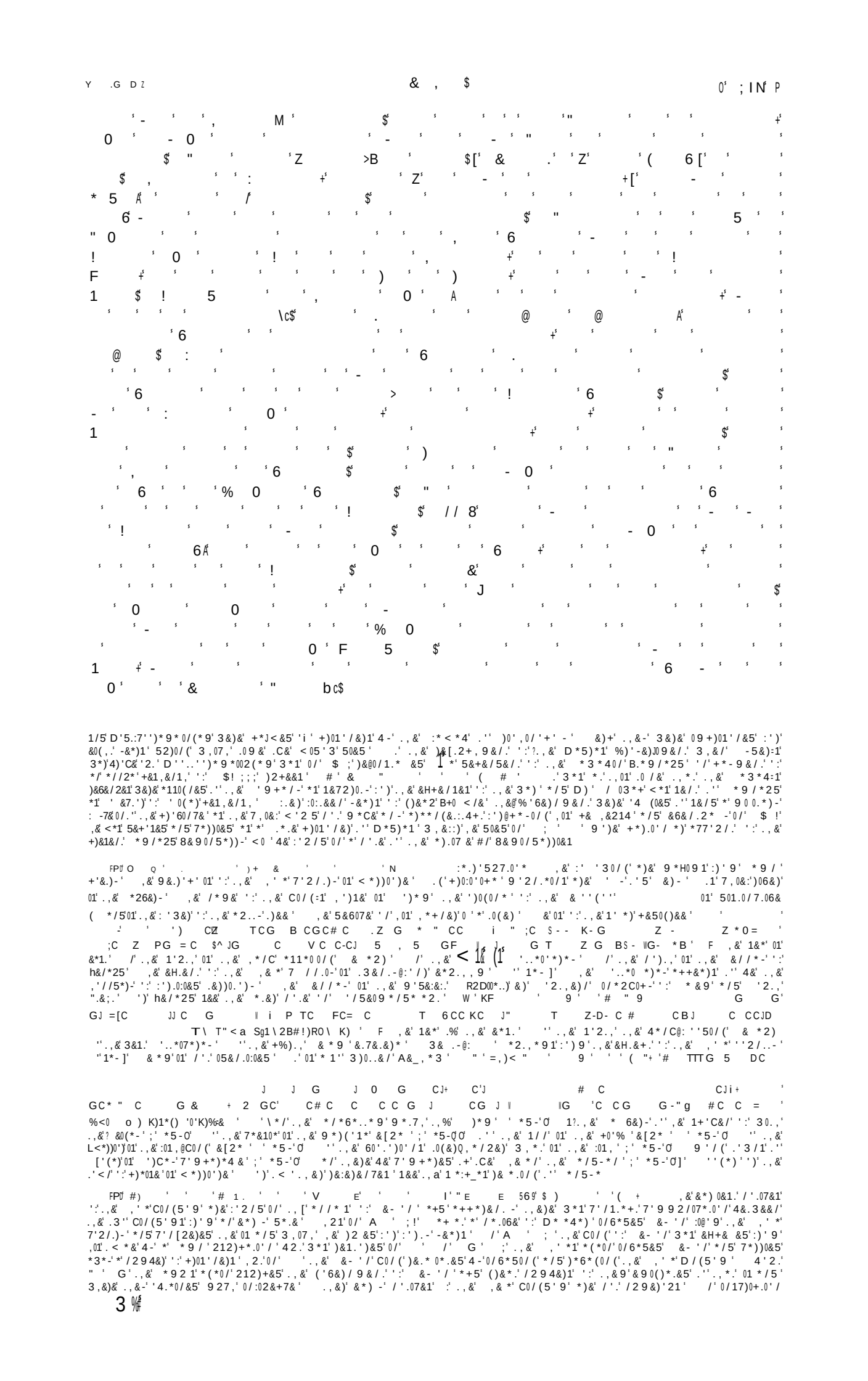


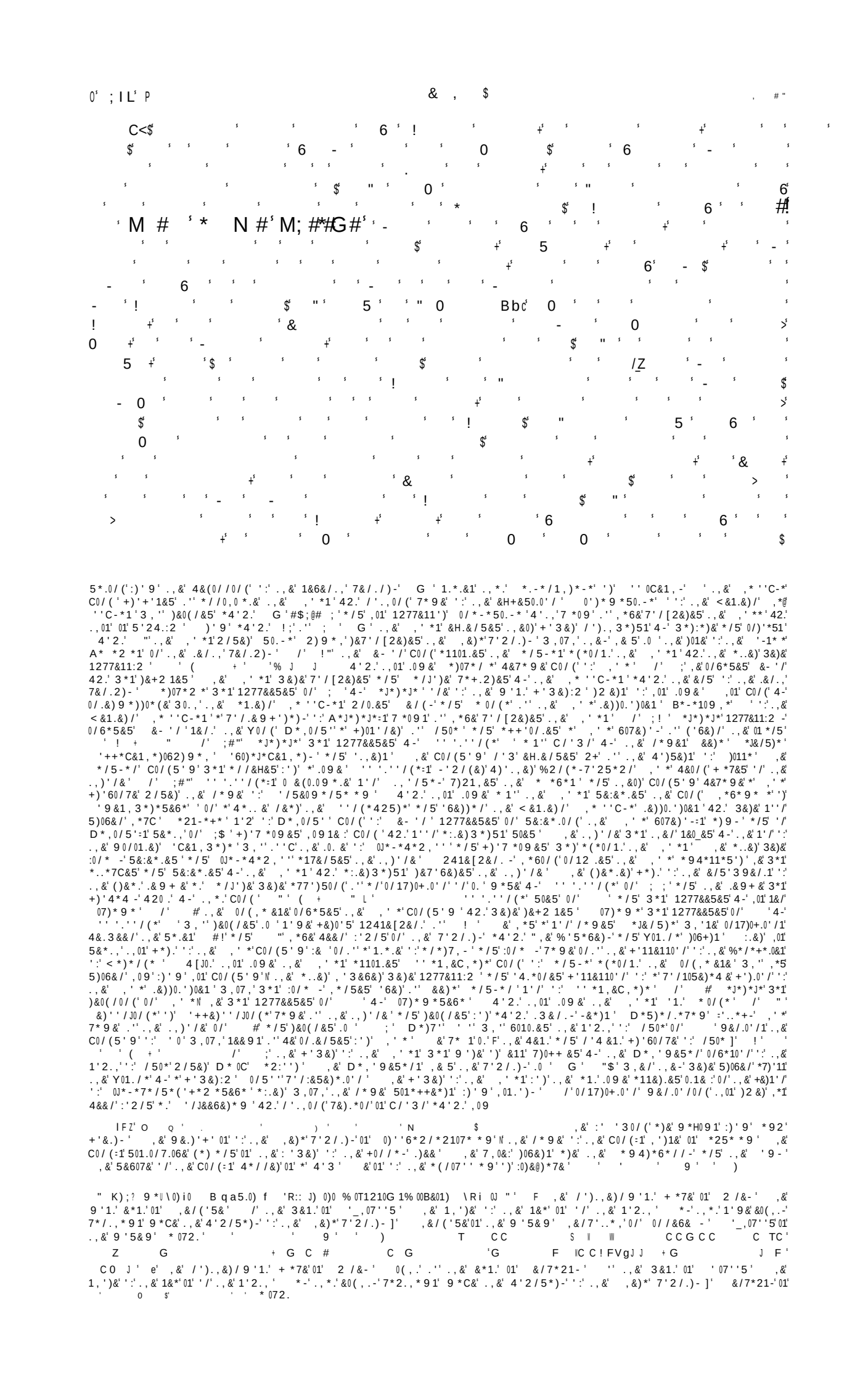


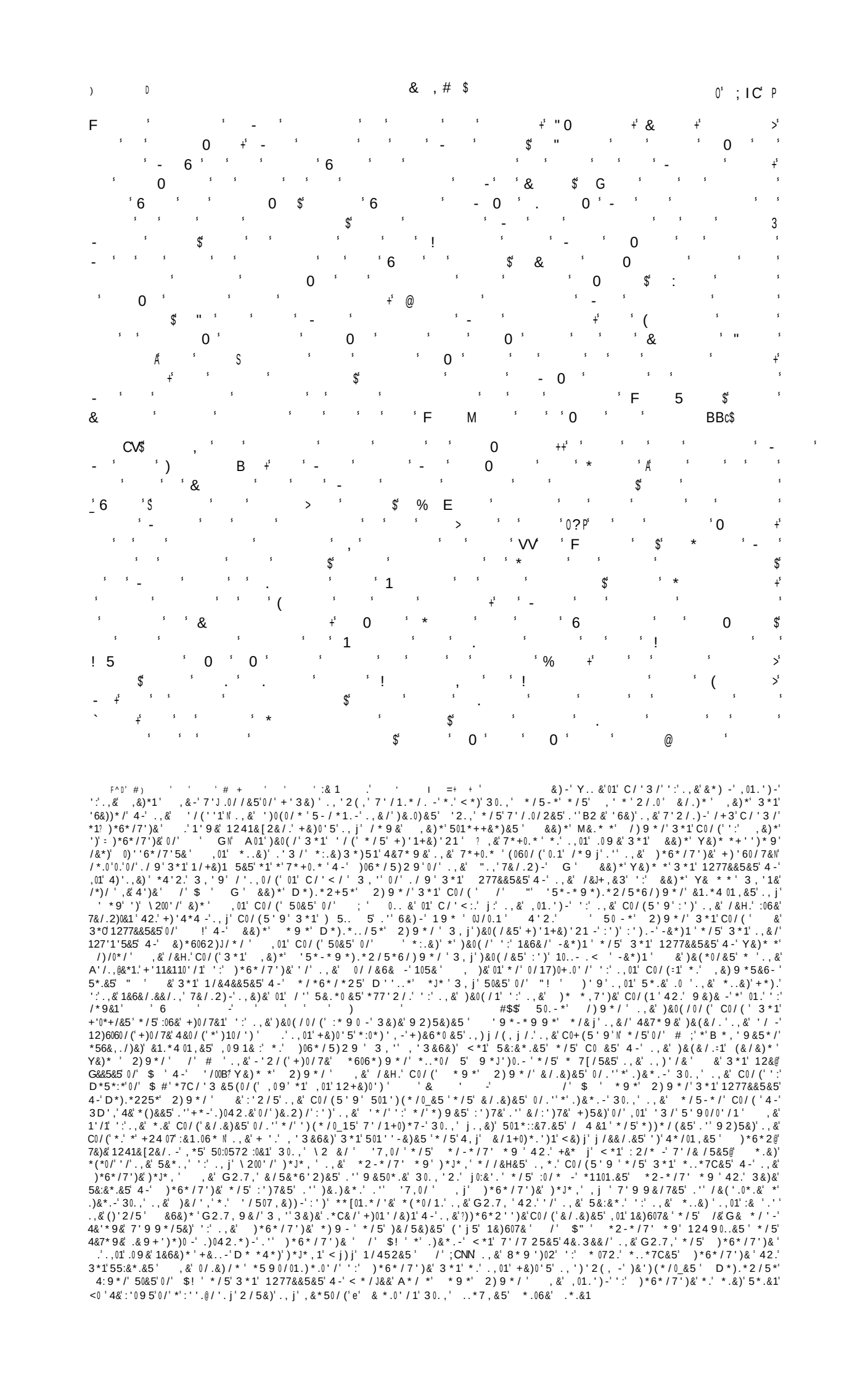


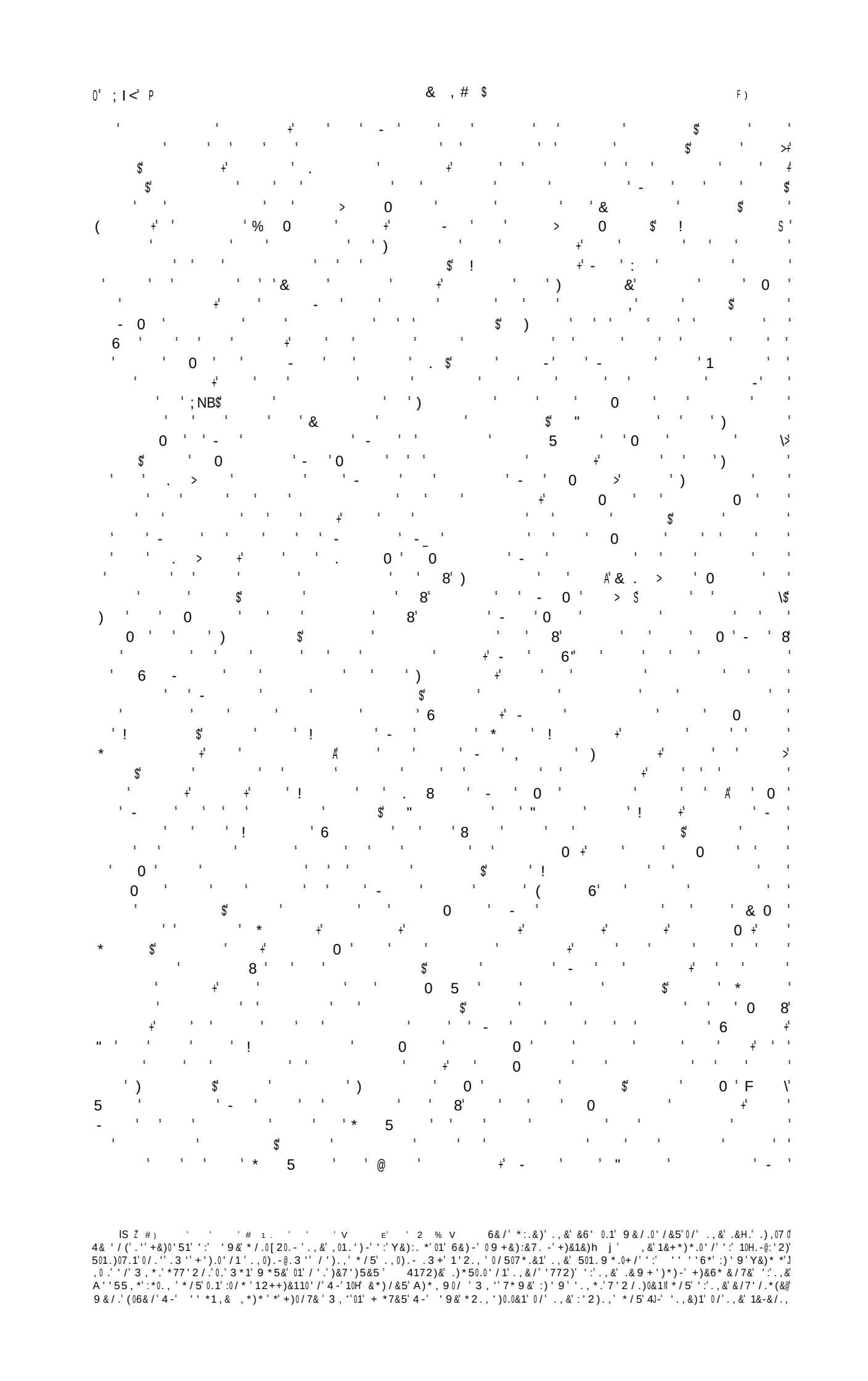


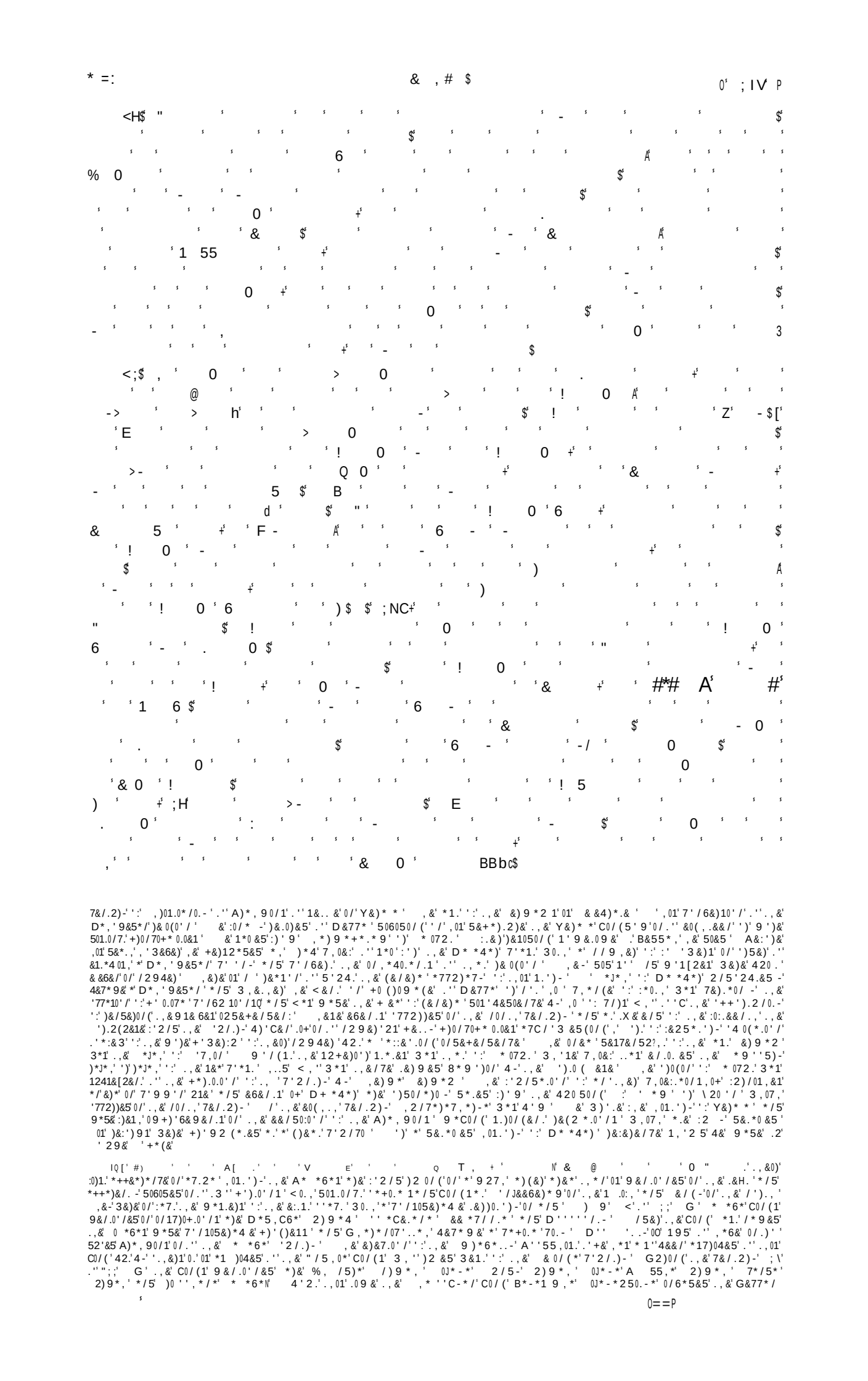


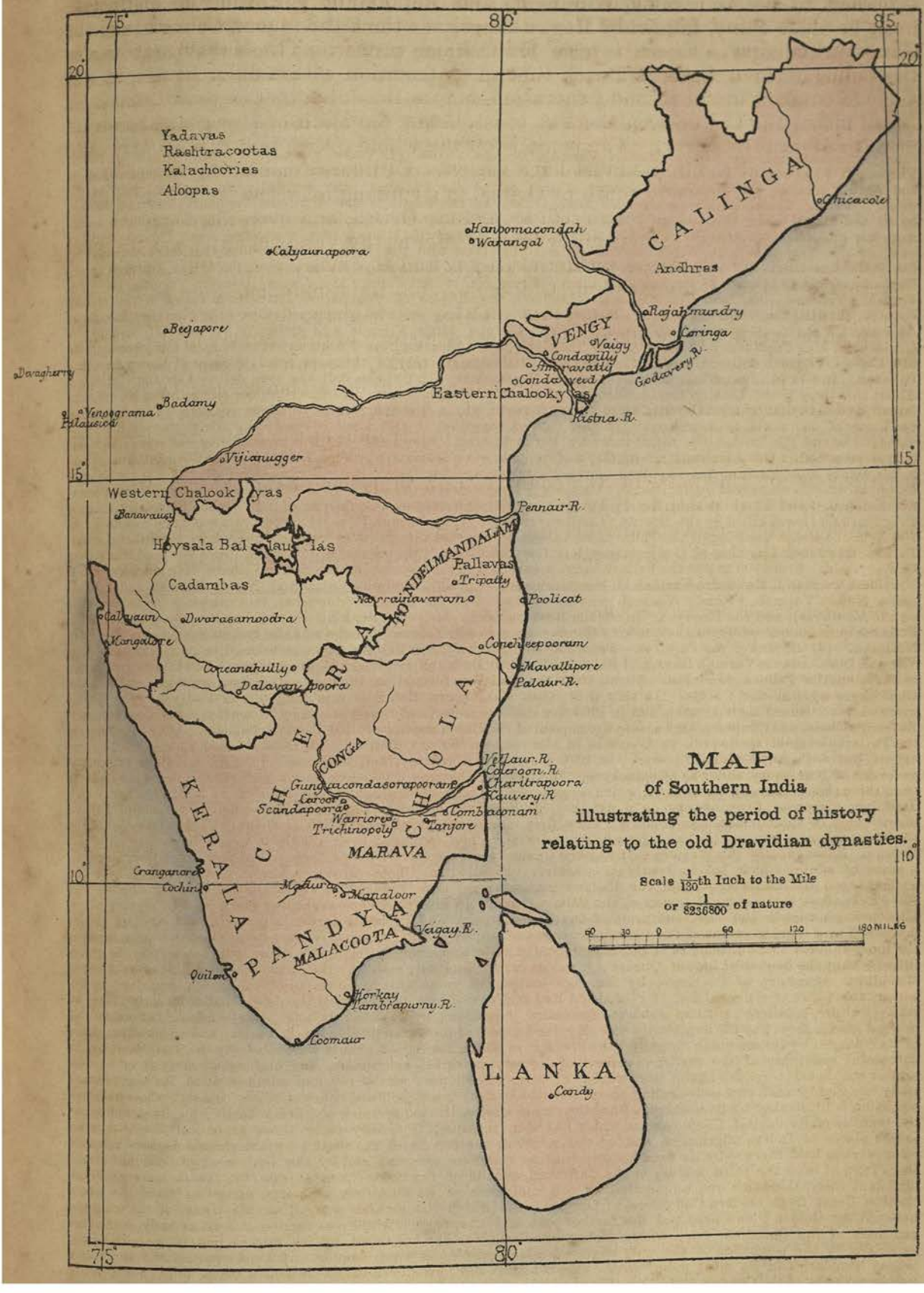


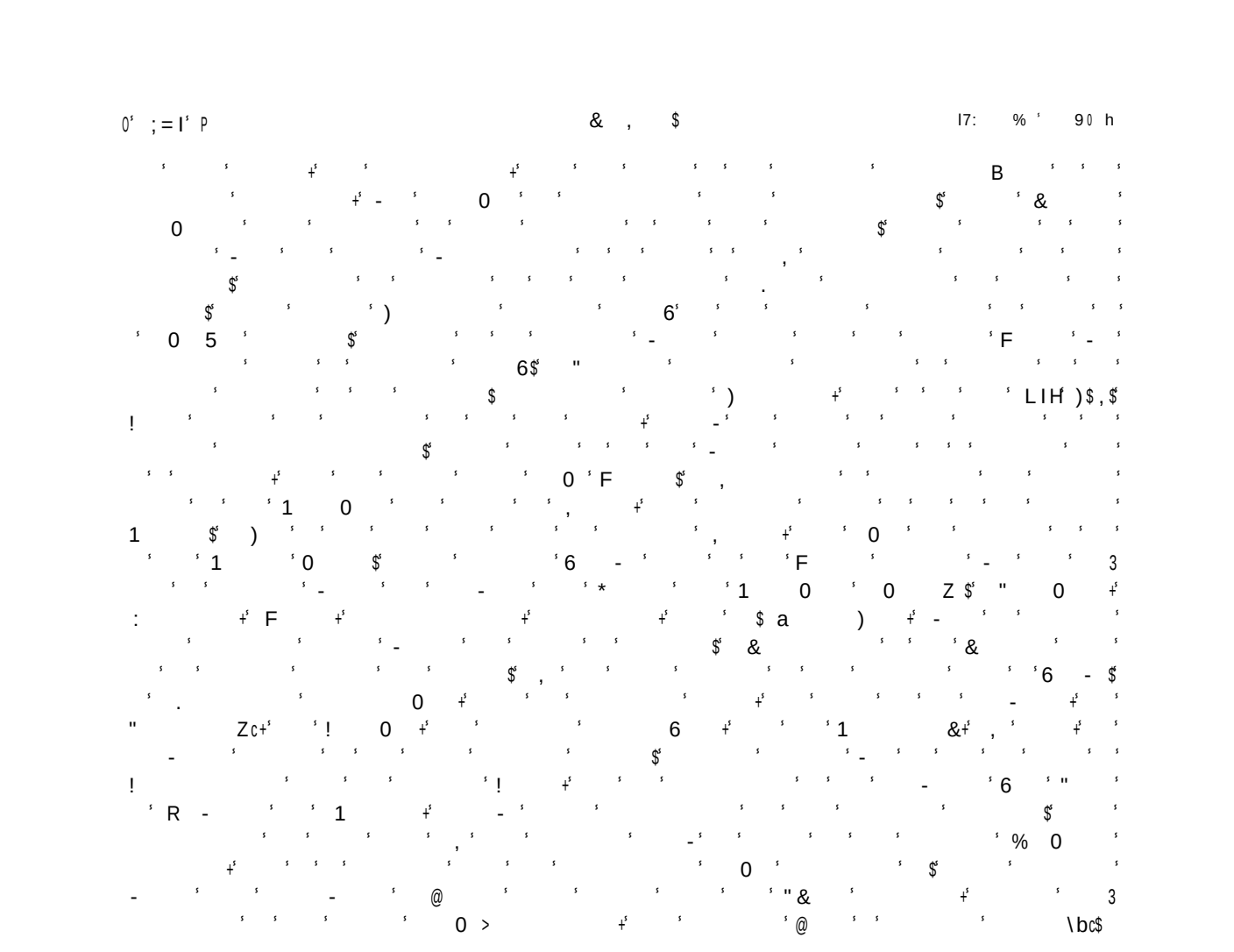


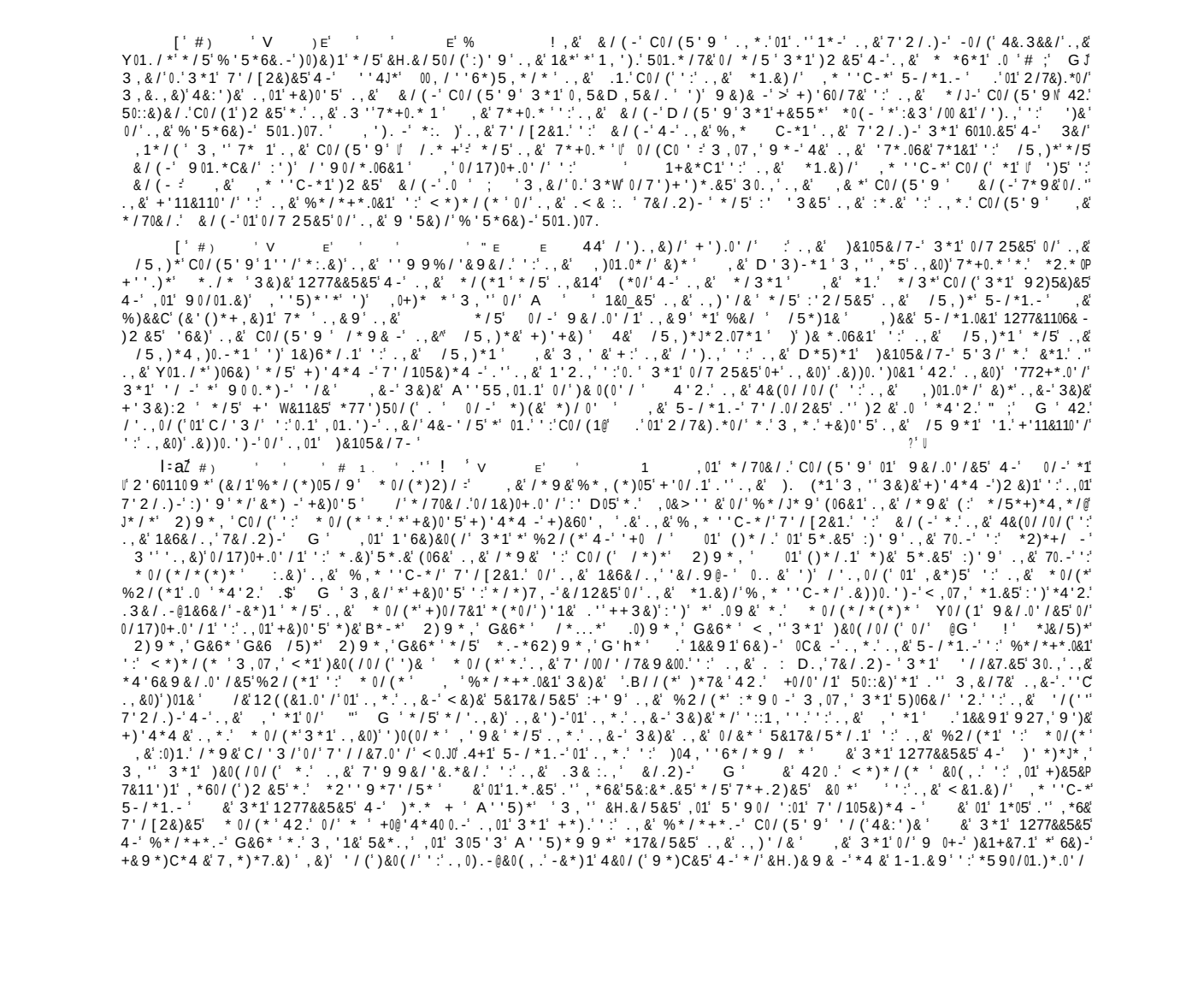


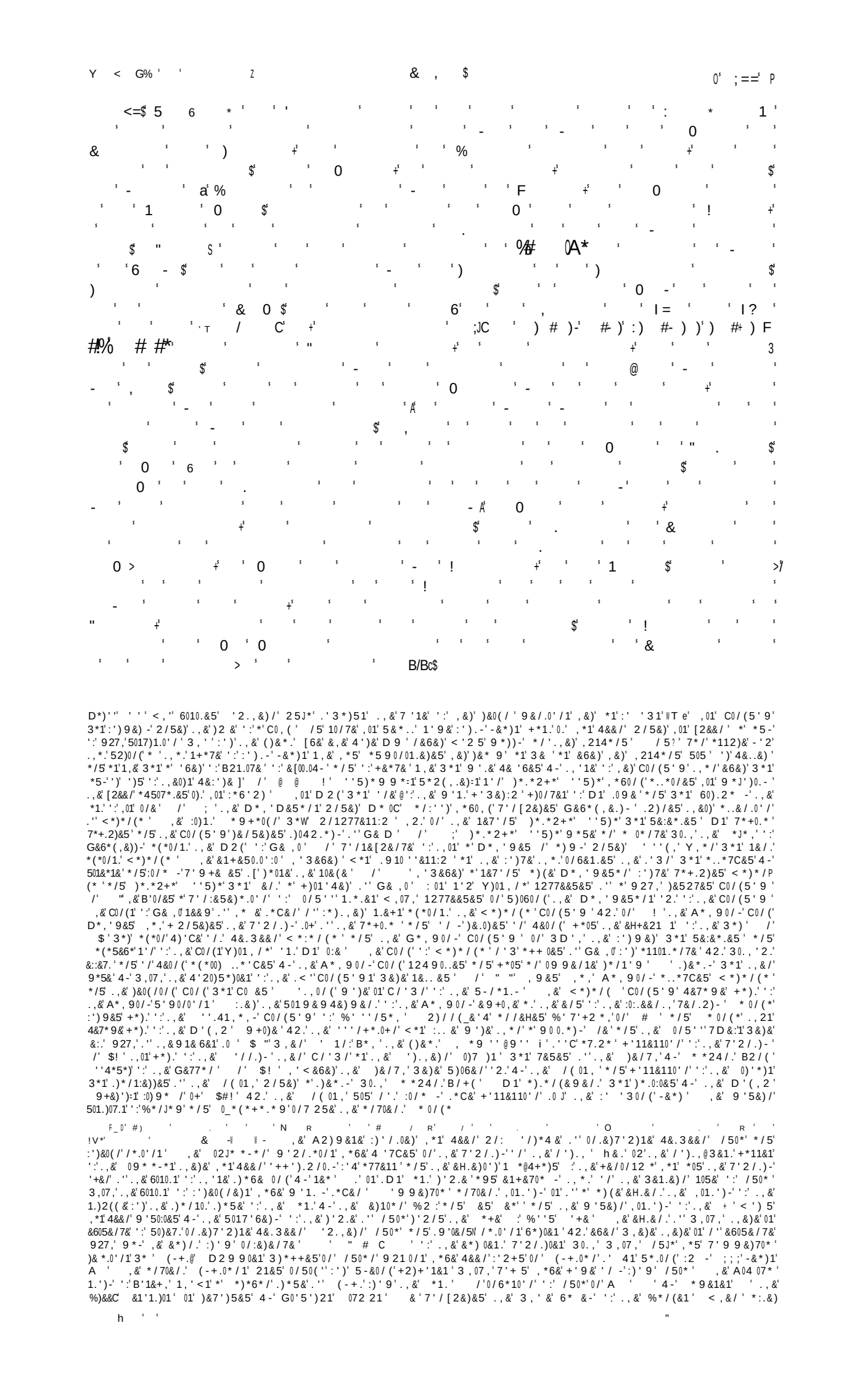


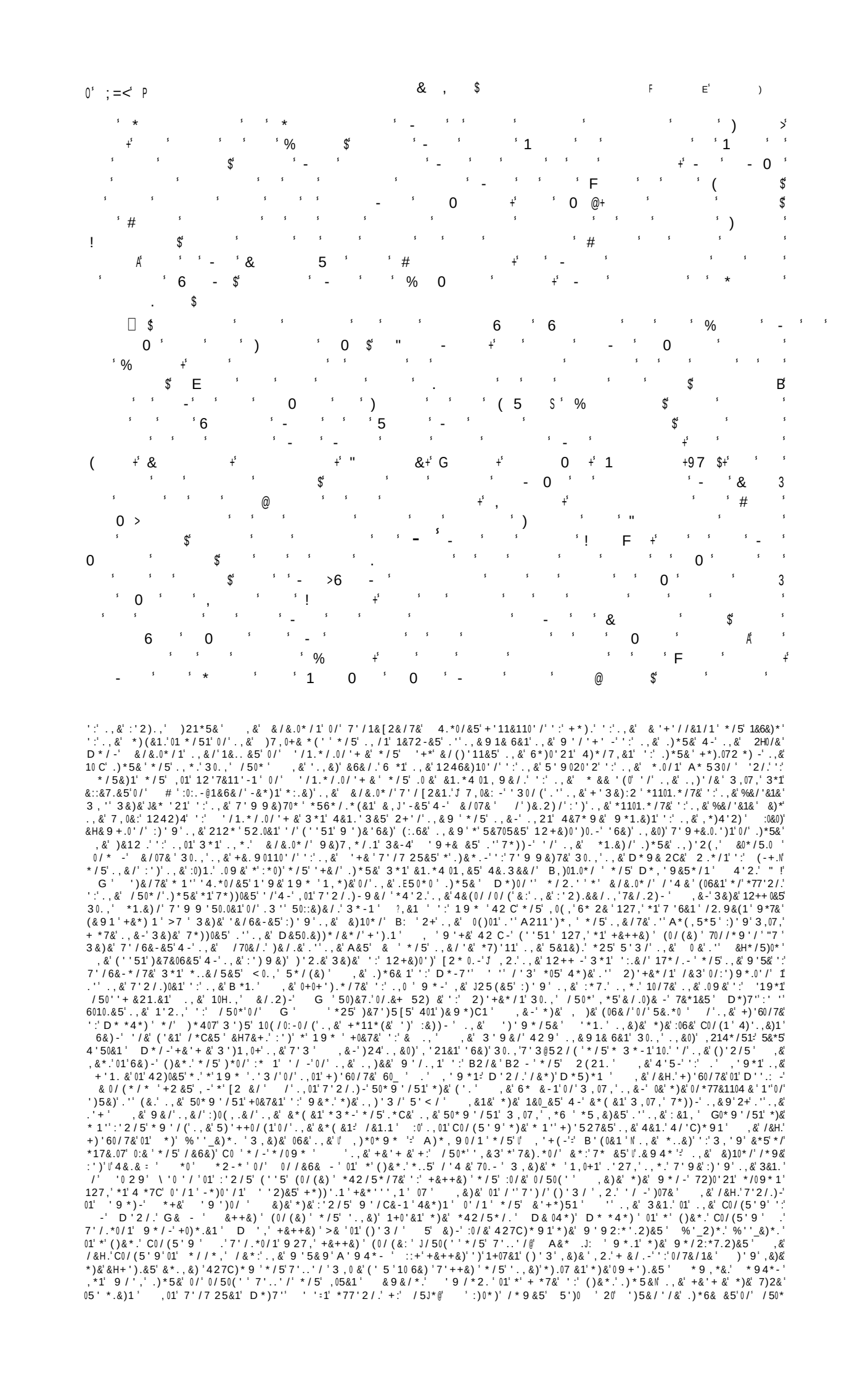


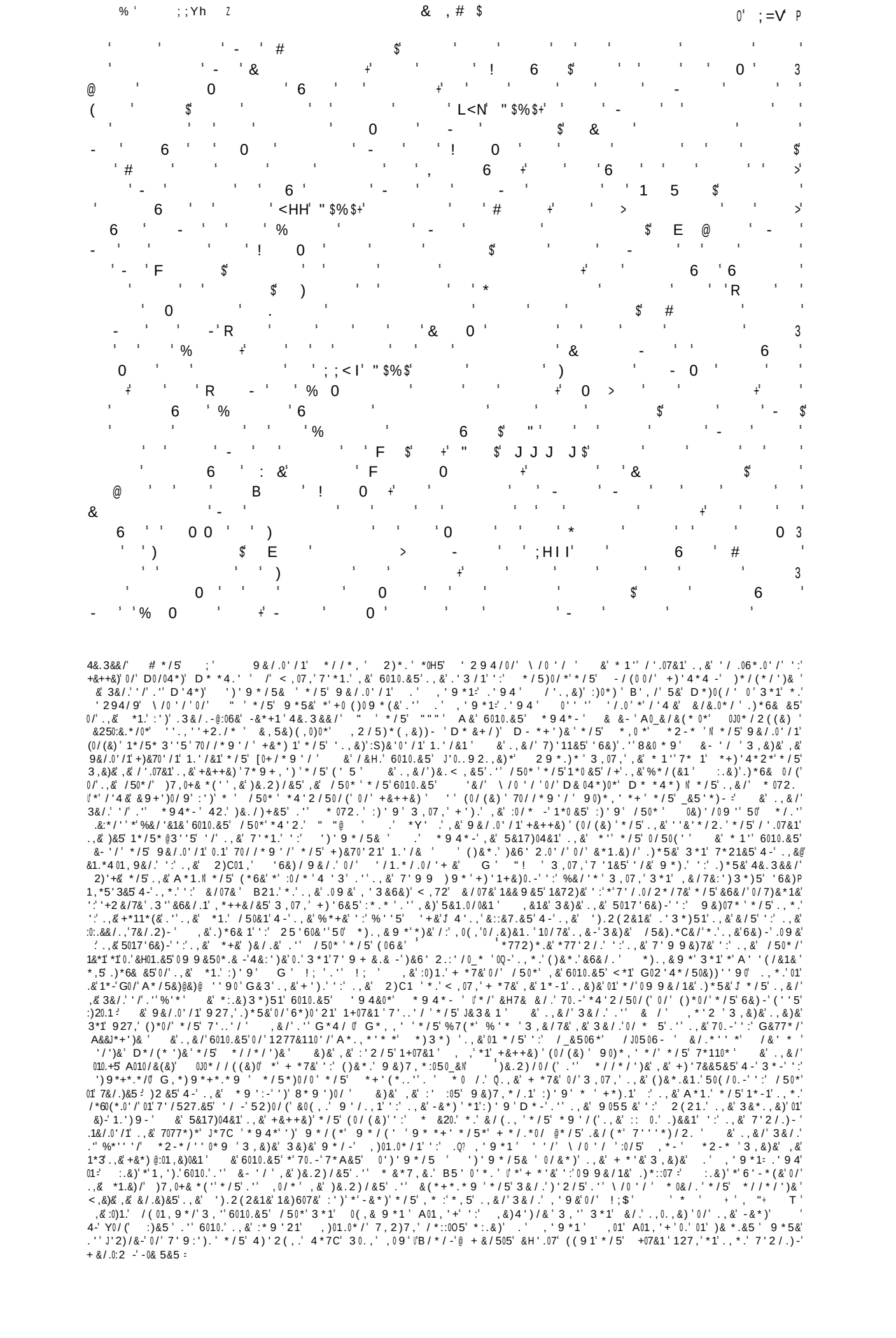

75°
80°
85°
20°
15°
10°
Yadavas
Rashtracootas
Kalachoories
Aloopas
CALINGA
Andhras
Chicacole
Hanpomacondah
Warangal
Calyaunapoora
Rajahmundry
Coringa
Beejapore
VENGY
Vaigy
Condapilly
Amravatty
Condaveed
Godavery R.
Eastern Chalookyas
Kistna R.
Badamy
Vijianugger
Western Chalookyas
Pennair R.
Hoysala Ballalas
TONDELMANDALAM
Pallavas
Tripatty
Cadambas
Poolicat
Dwarasamoodra
Conjeveepooram
Mavallipore
Palaur R.
Vellaur R.
Coleroon R.
Gungracondasorapooram
Charitrapoora
Cauvery R.
Lorcar
Scandapoora
Warriore
Trichinopoly
Combaconam
Tanjore
CHOLA
CONGA
CHERA
KERALA
MARAVA
Granganore
Cochin
Madura
Manaloor
Veigay R.
PANDYA
MALACOOTA
Quilon
Korkay
Tambrapurny R.
Coomaur
LANKA
Candy
MAP
of Southern India
illustrating the period of history
relating to the old Dravidian dynasties.
Scale 1/180th Inch to the Mile
or 1/8236800 of nature
60 30 0 60 120 180 MILES

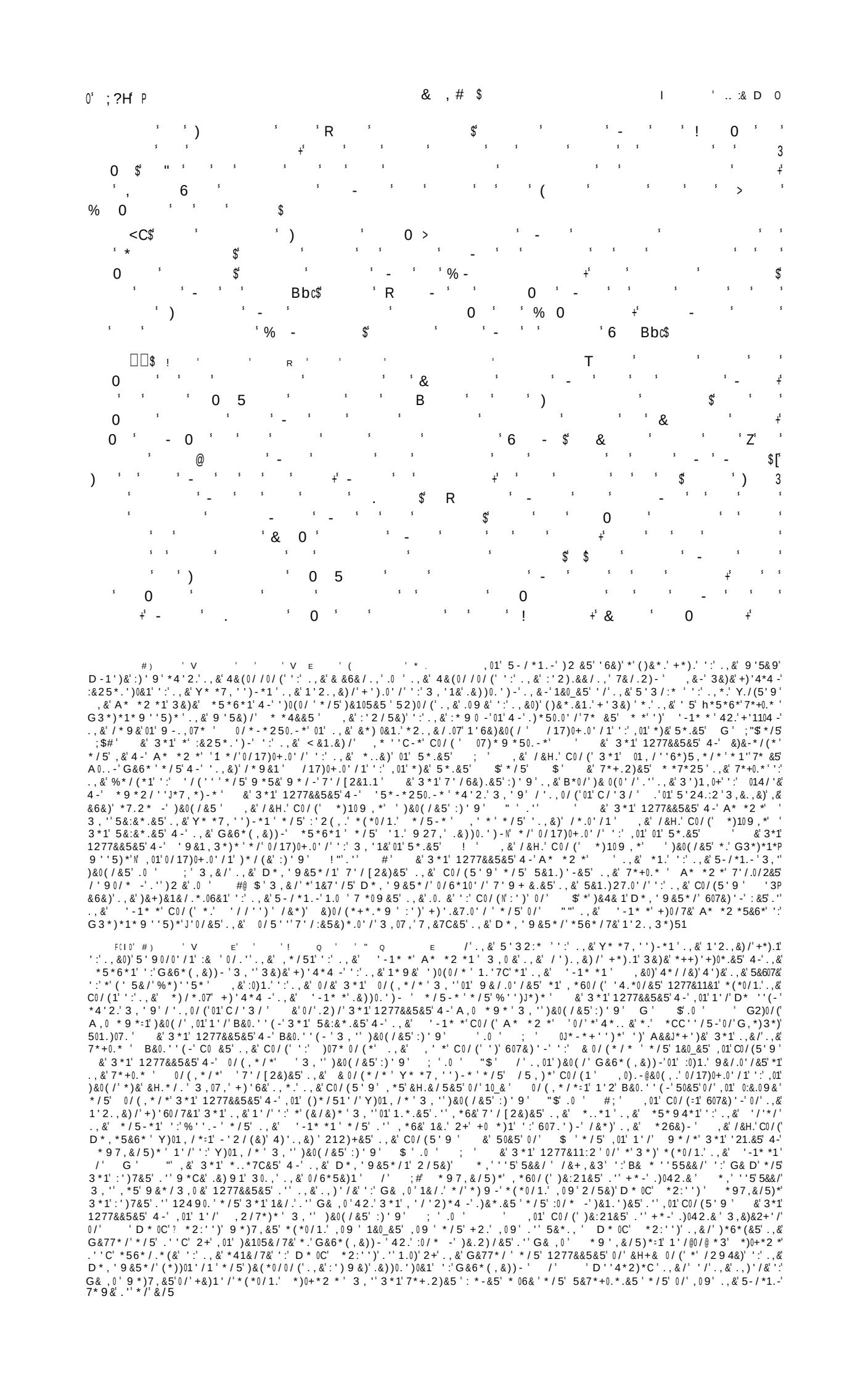


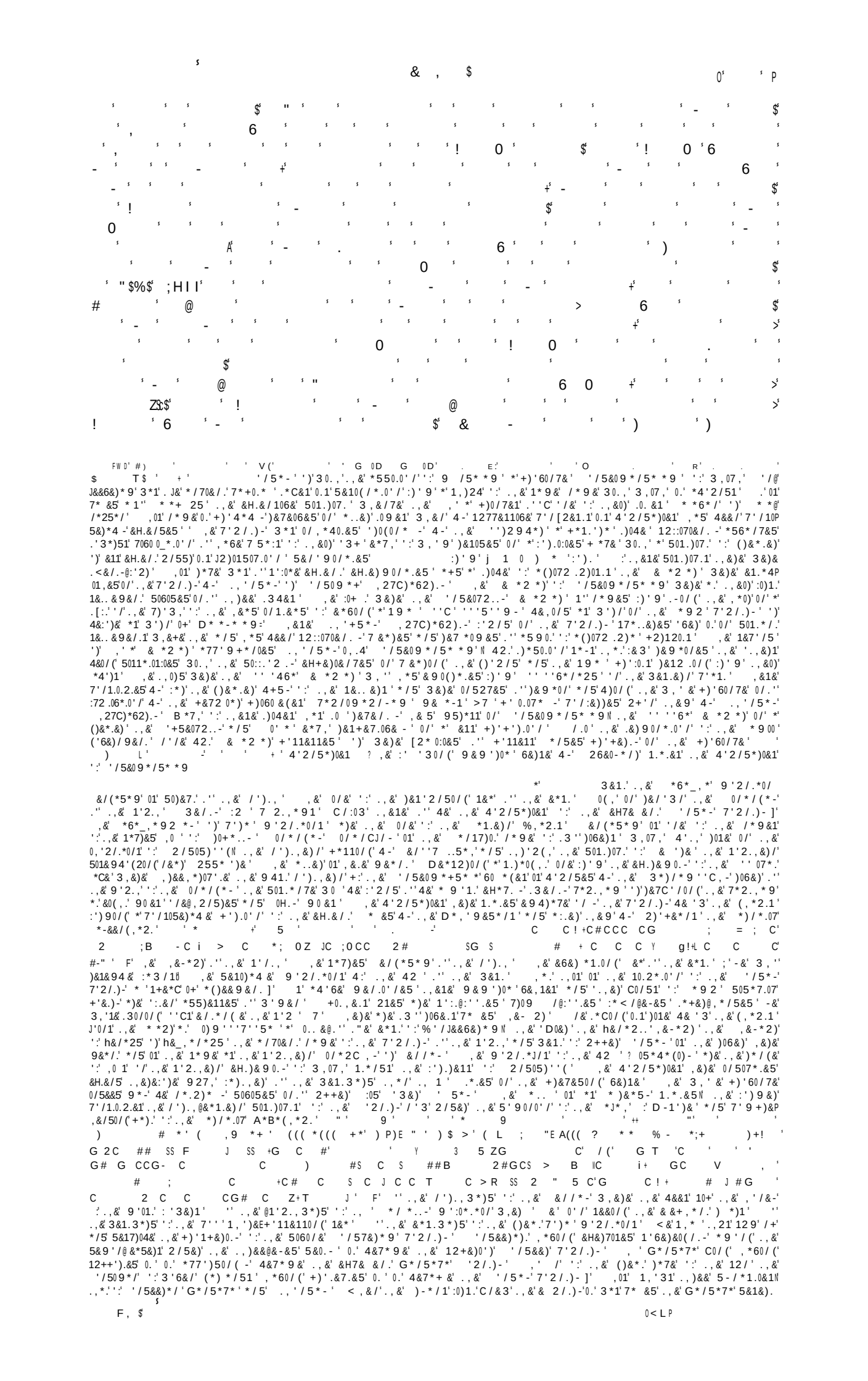


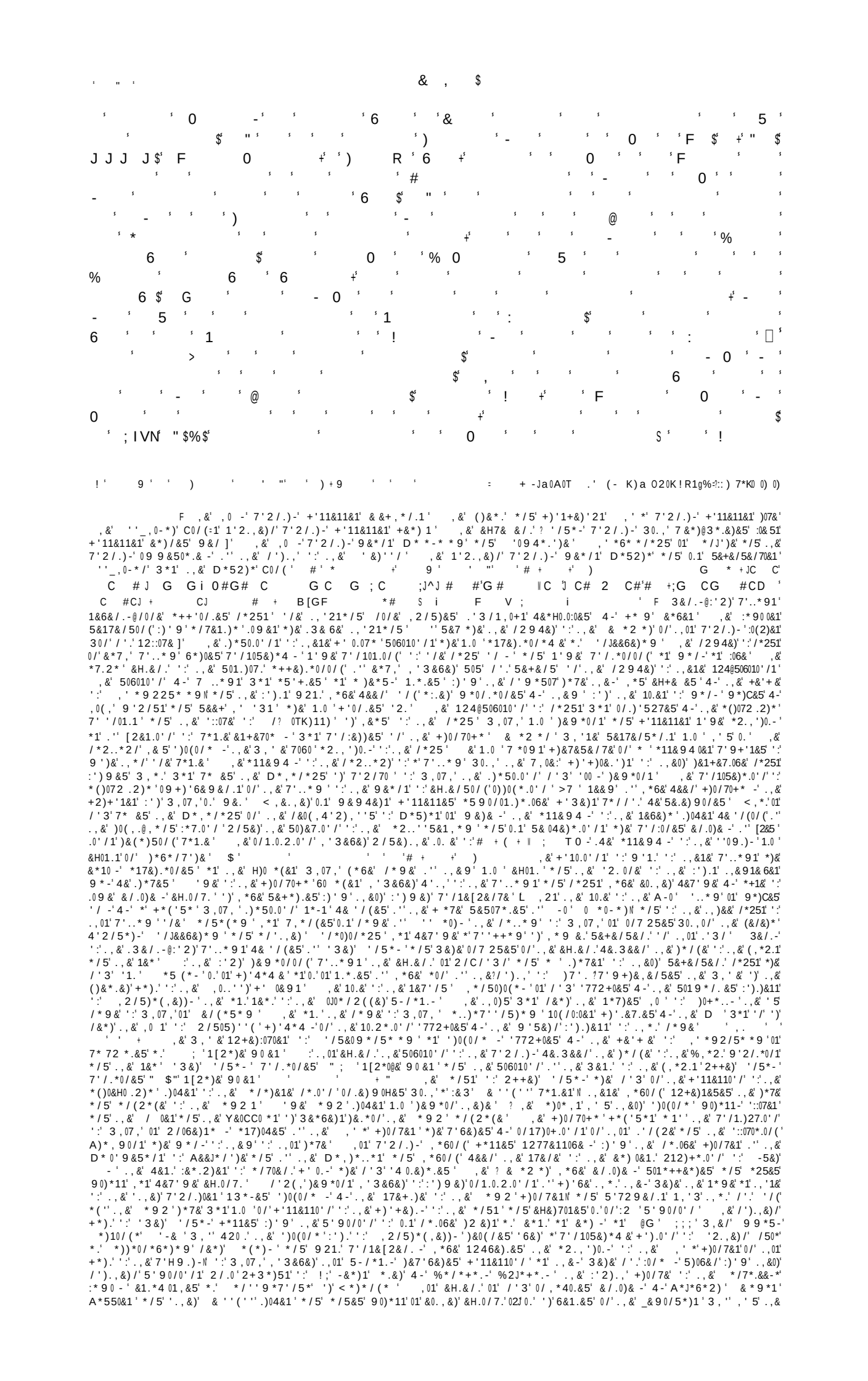


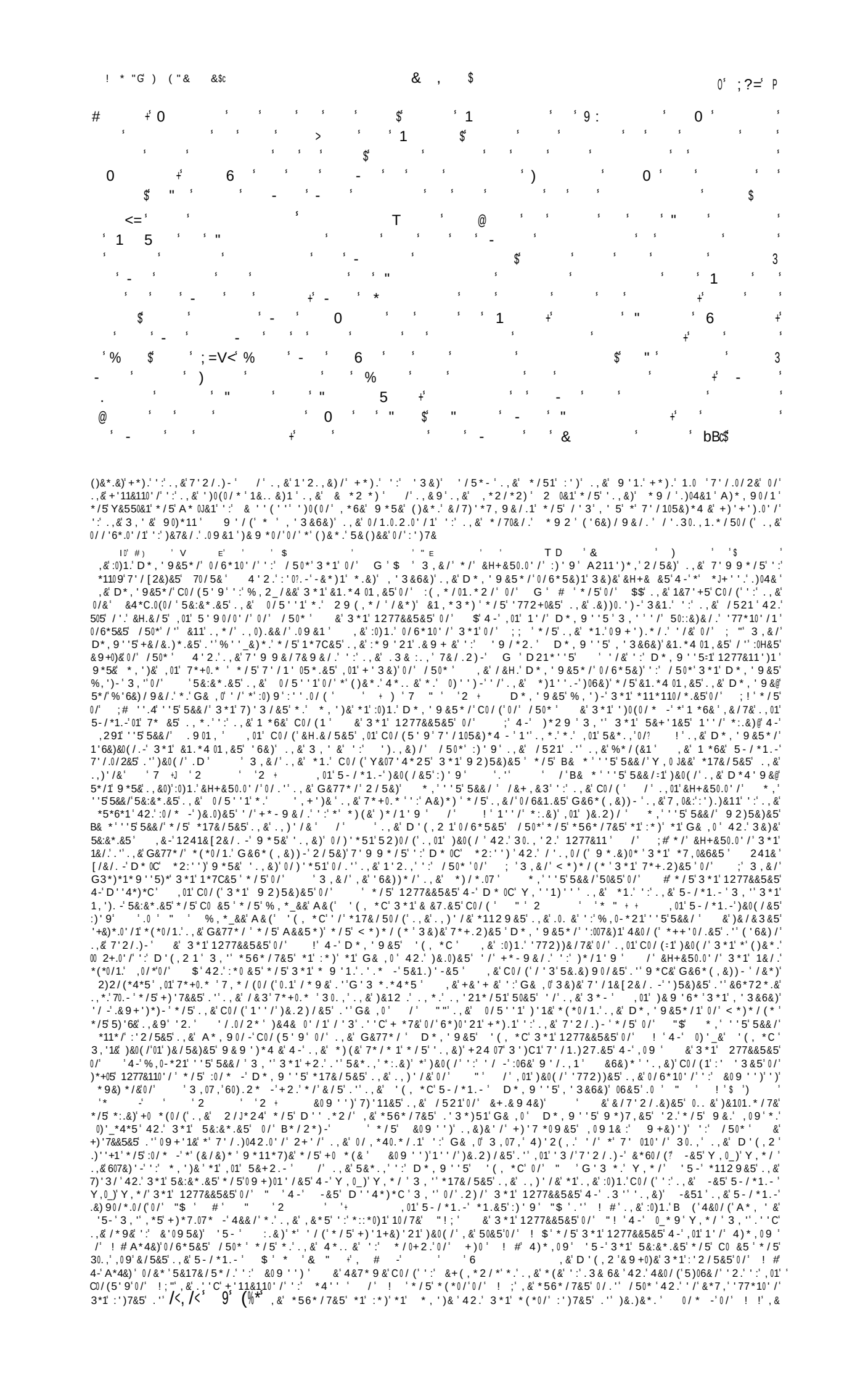


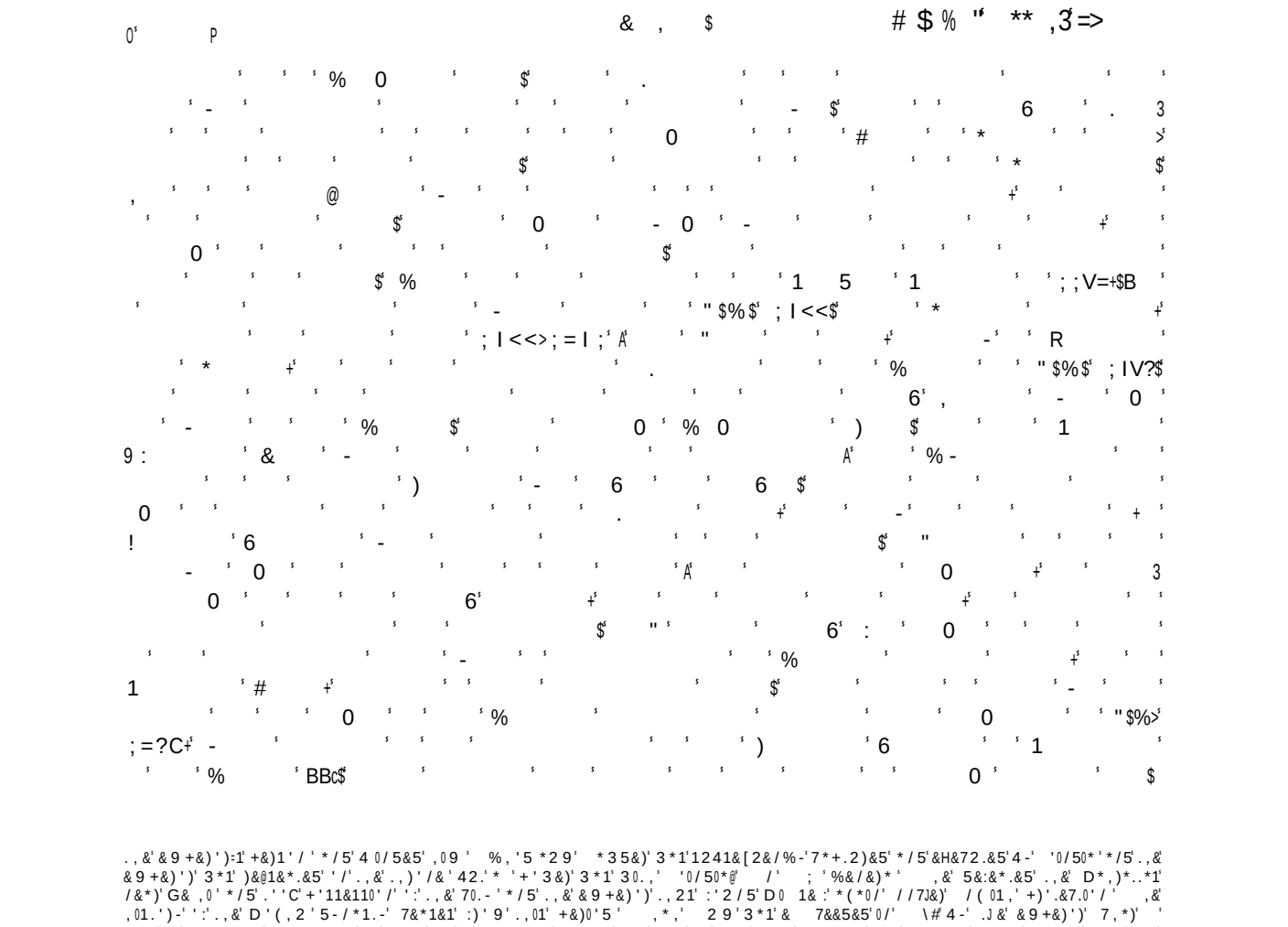




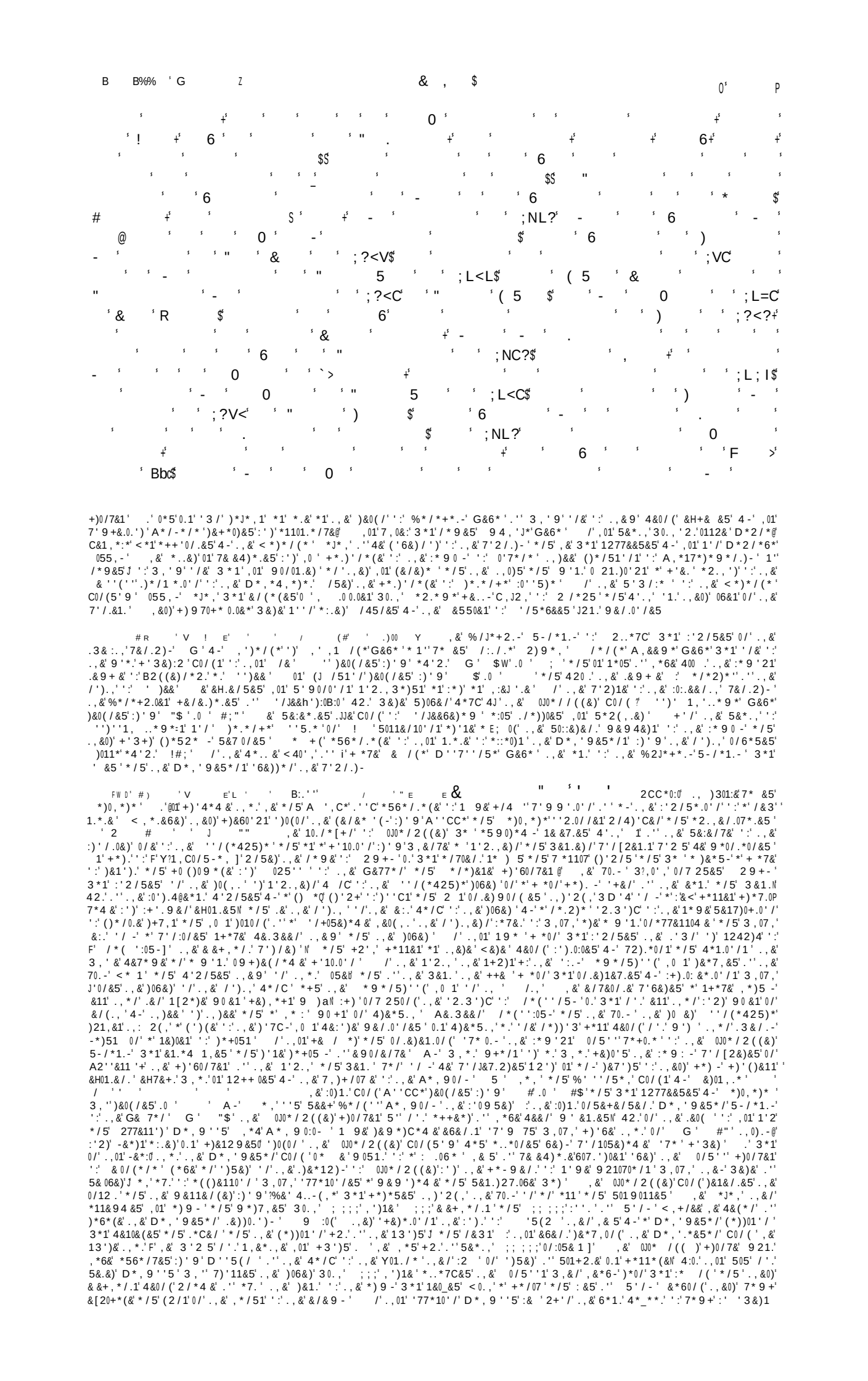


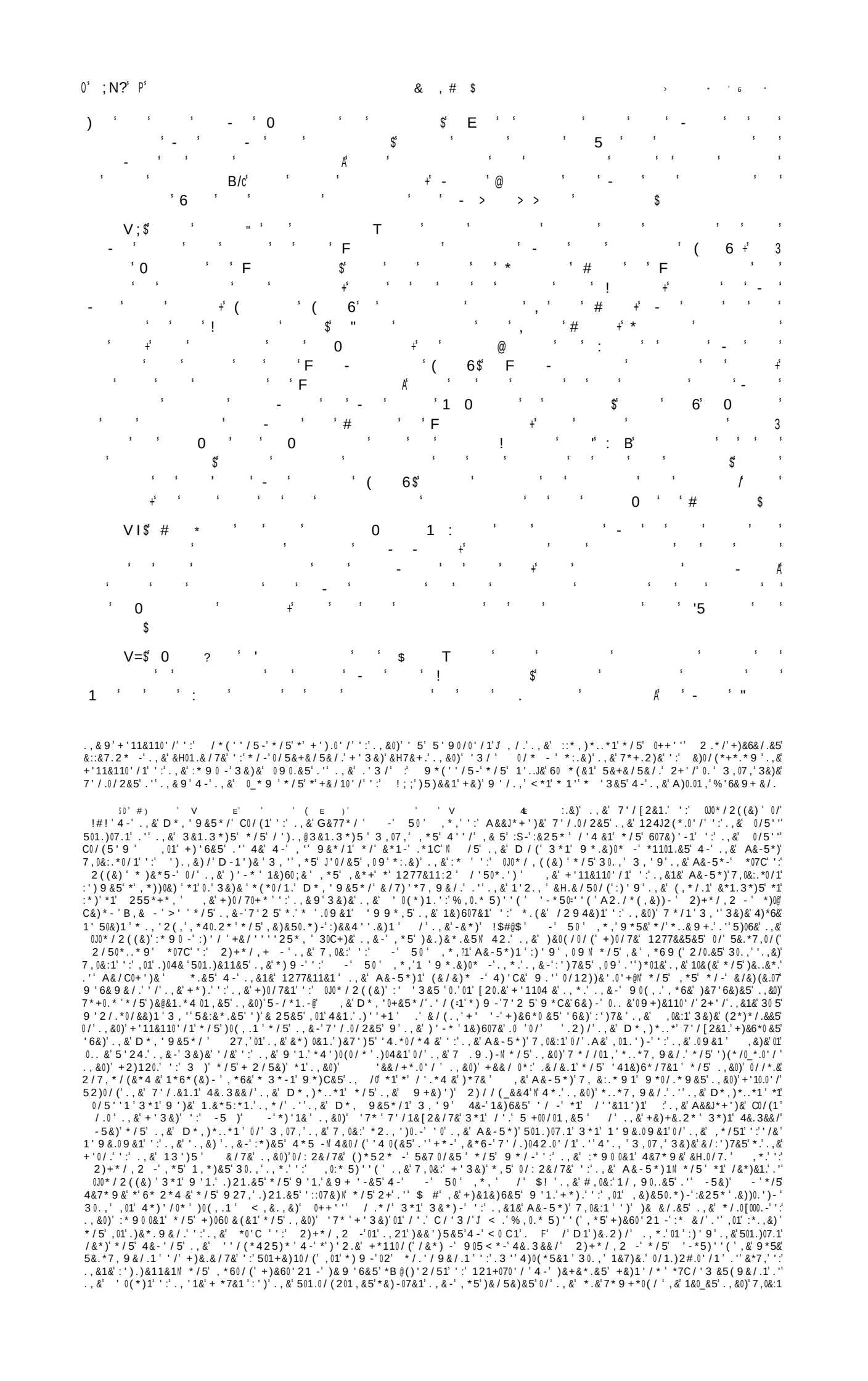


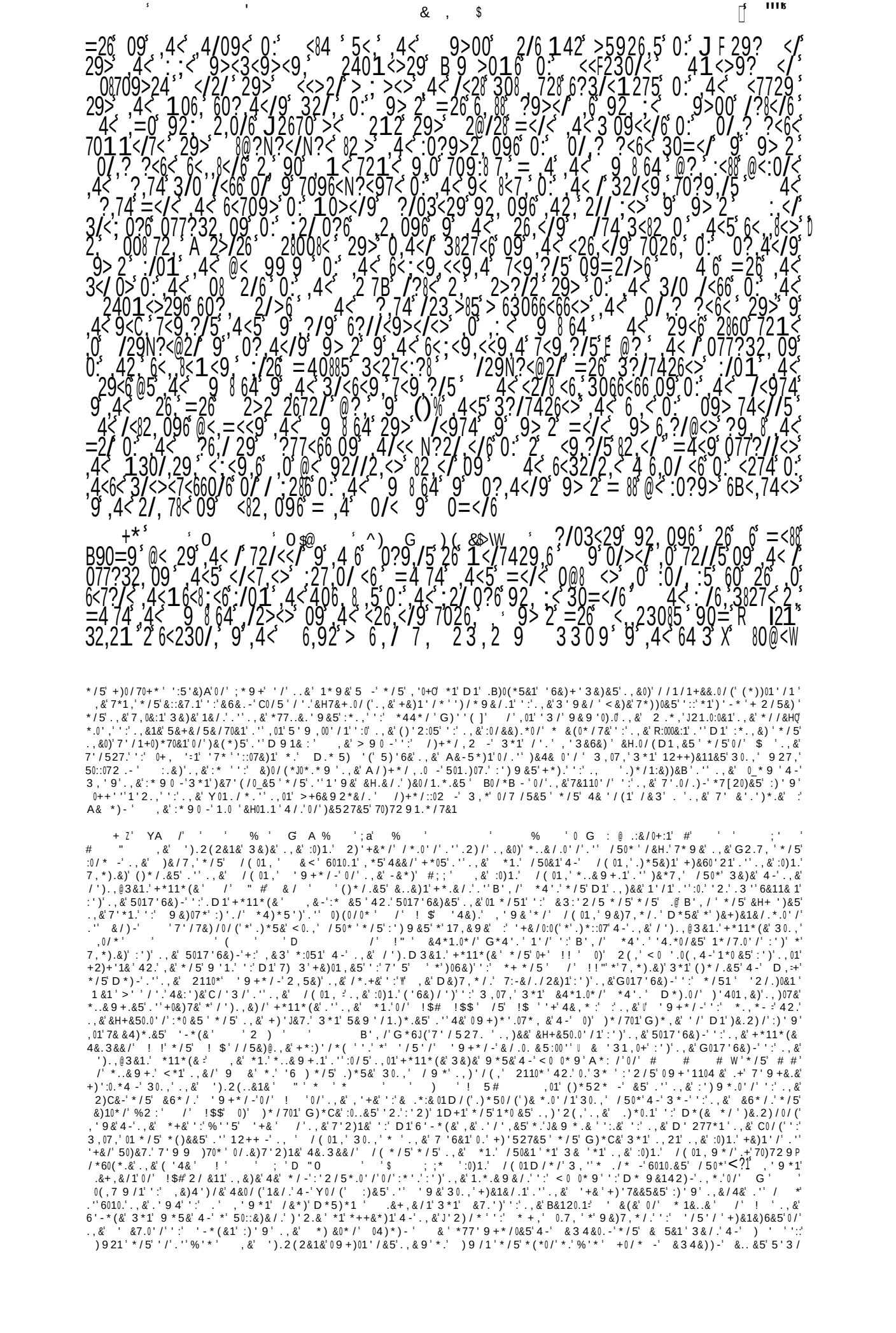


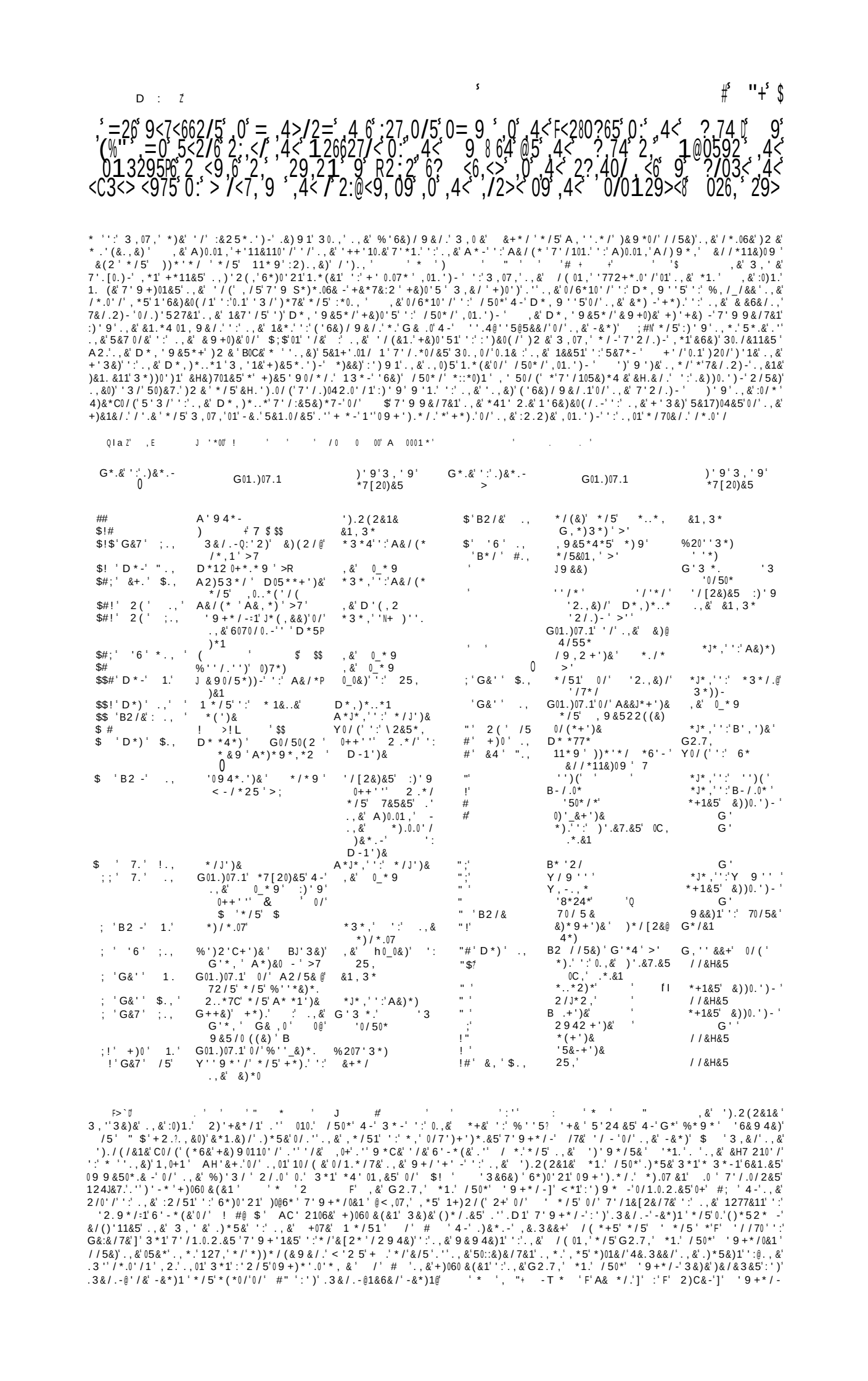


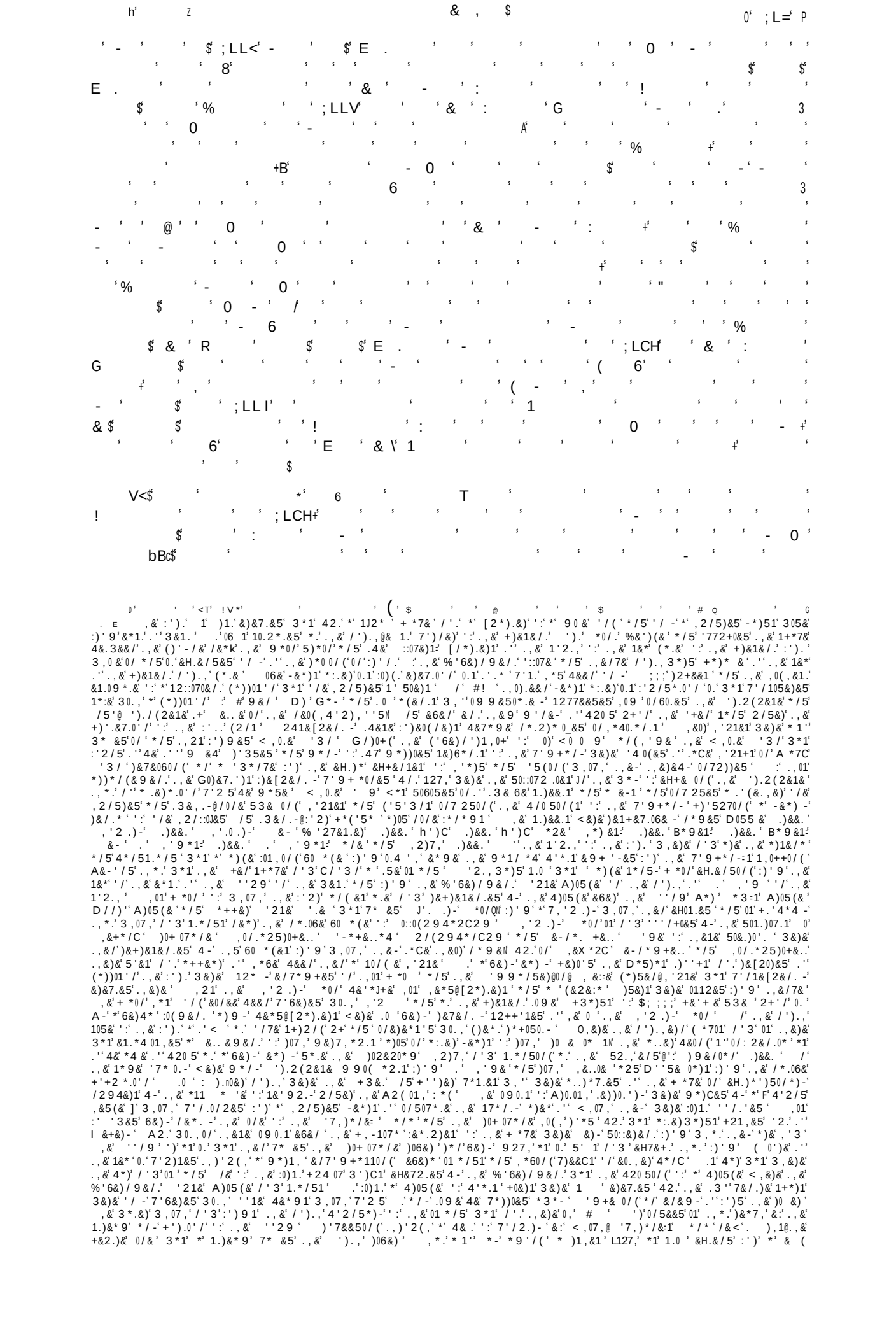
75°
85°
30°
20°
10°
Shah Jehaunabad (Delhi)
Mathura
Sikry
Agra
Jypore
RAJPOOTANA
Jodhpore
Ajmeer
Chambal R.
Gwalior
Aravally Hills
Beharr
Chittore
Oodaypore
Choonar
MALWA
Sirony
Bhilsa
Ougein
Rajmahaul Hills
Moorshedabad
Huddea
Hooghly
Chinsoora
Baroda
Baroche
Nerbudda R.
Tapty R.
Surat
Boorhanpore
Candeish
Berar
CONCANY MAHRATTAS
MAHARASHTRA
GONDWANA
Devagherry or Dowlatabad
Nurungabad
Bassein
Joonere
Ahmednugger
Poona
Beedar or Mahomedabad
Sattaura
Golconda
Warangal
TELINGANA
Goolburgha or Hassanabad
Beejapore
CARNATACA
Anagoondy
Gunjoty
Vijianugger
Carwar
Honore
Ikkeary or Bednore
Chundragherry
Hullabeed or Dwarasamoodra
Mangalore
Cannanore
Calicut
Ponnany R.
Periyaur R.
Cochin
TRAVANCORE
DRAVIDA
Talicotta
Condaveed
Masulipatam
Kistna R.
Goondlacumma R.
Pennar R.
Penoocondah
Poolicat L.
Mylapore (St. Thome)
Palaur R.
Tinjee
Ponniaur R.
Coleroon R.
Cauvery R.
Tanjore
Veigay R.
Tambrapurny R.
CEYLON
Chilka L.
Rooshcoolya R.
Vanshadara R.
Godavery R.
MAP
of peninsular India
illustrating the
Mahomedan period of History.
Scale 1/1863 Inch to the Mile
or 1/11827200 of nature
93 62 31 0 93 186 Miles

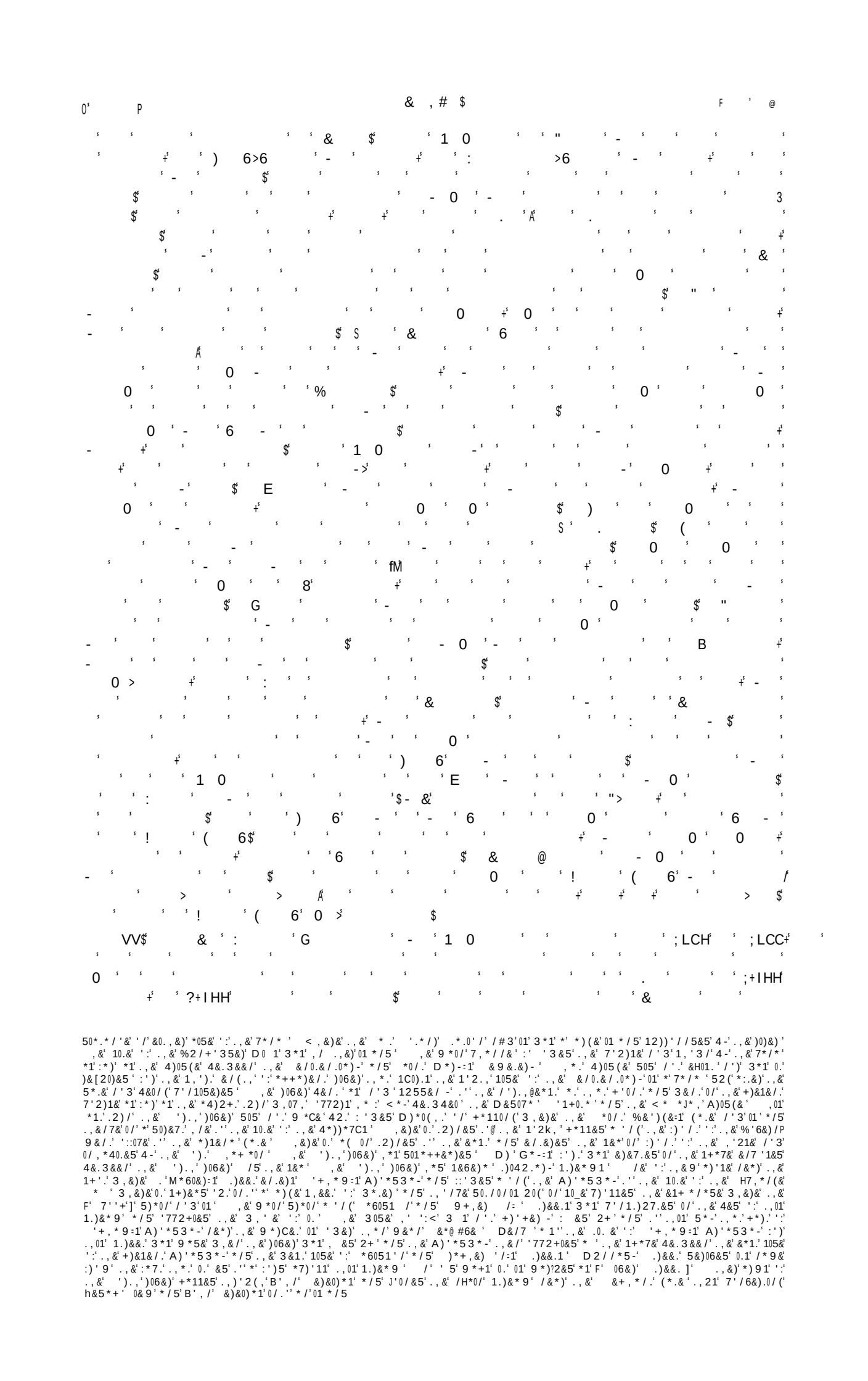


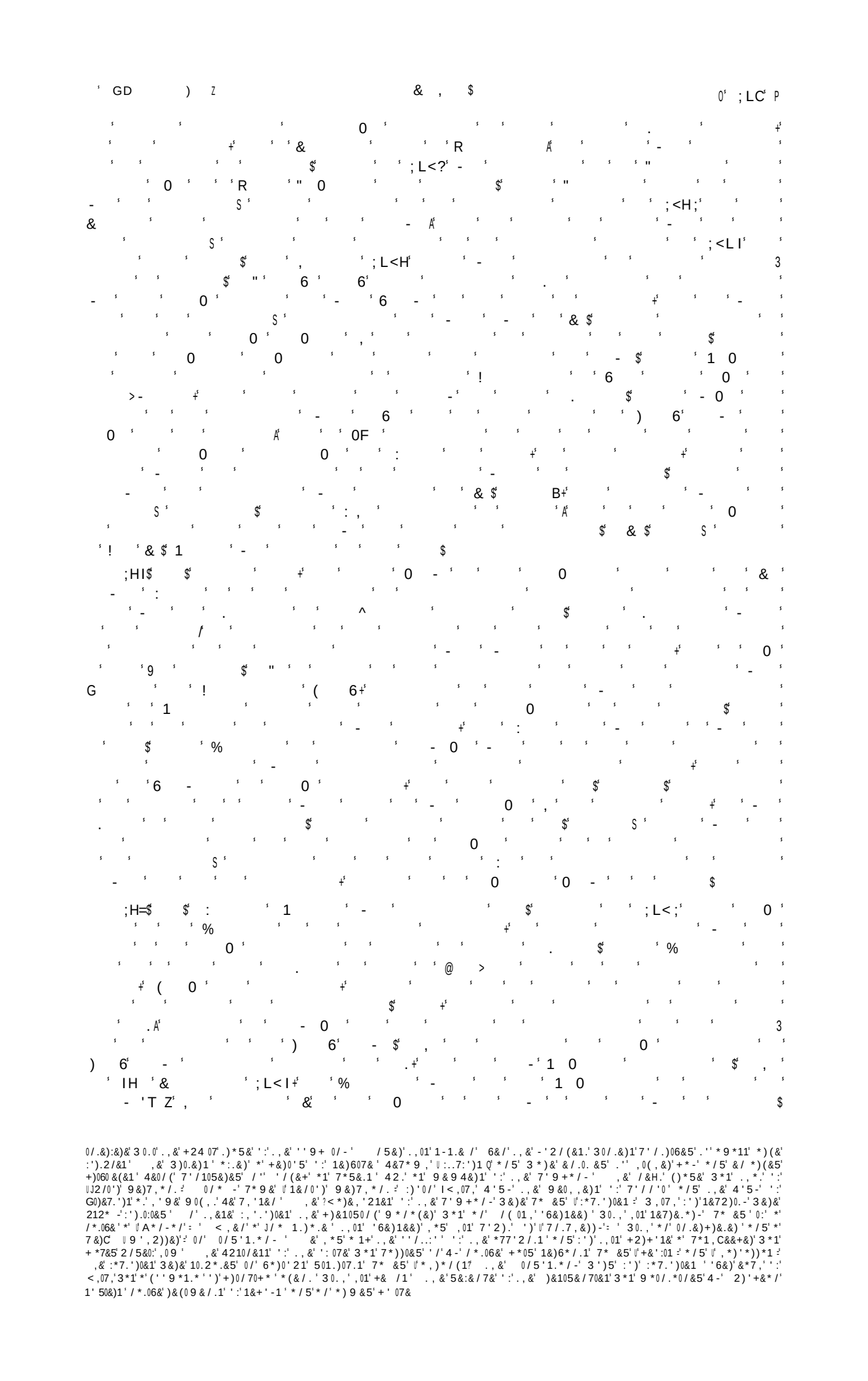


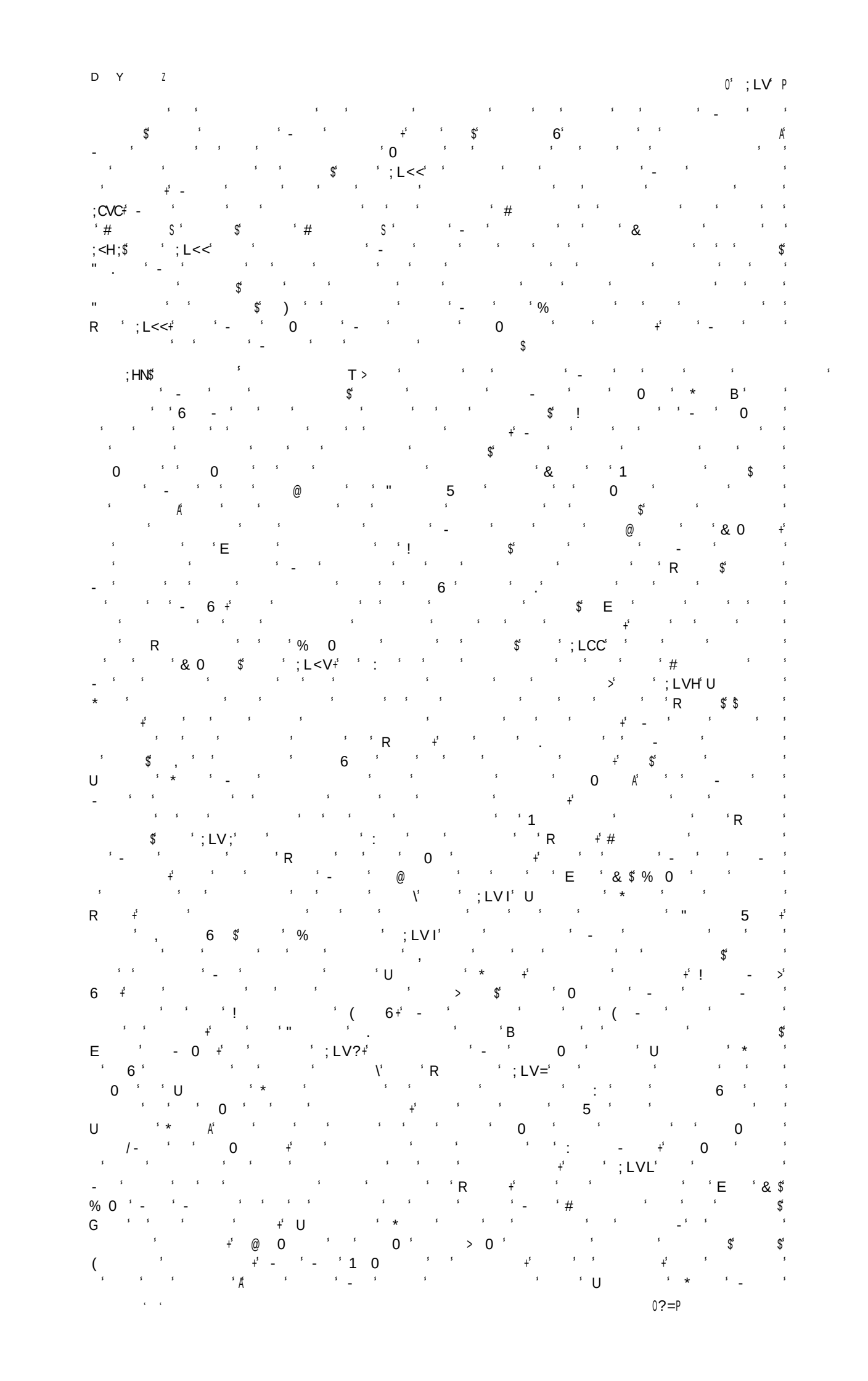


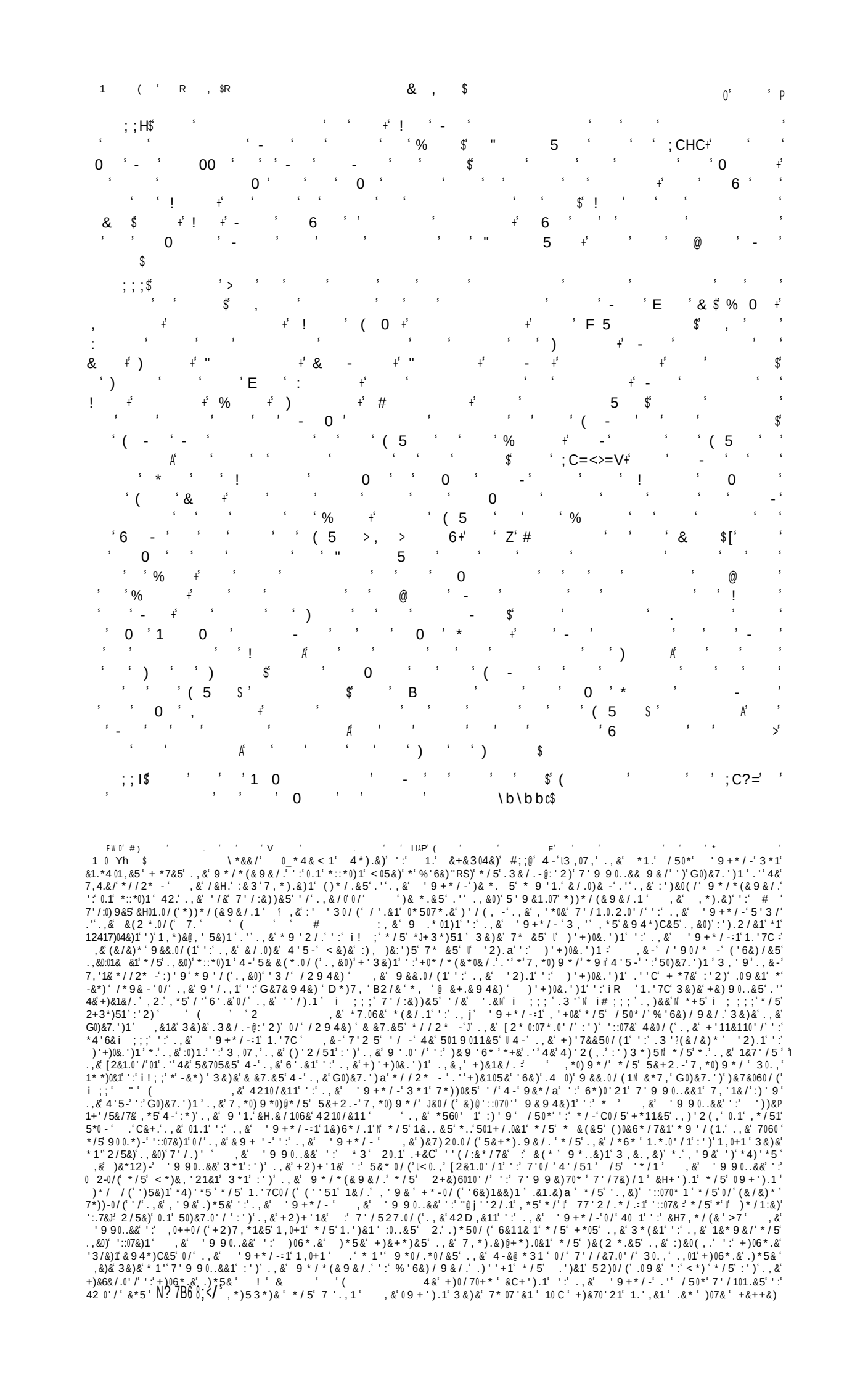


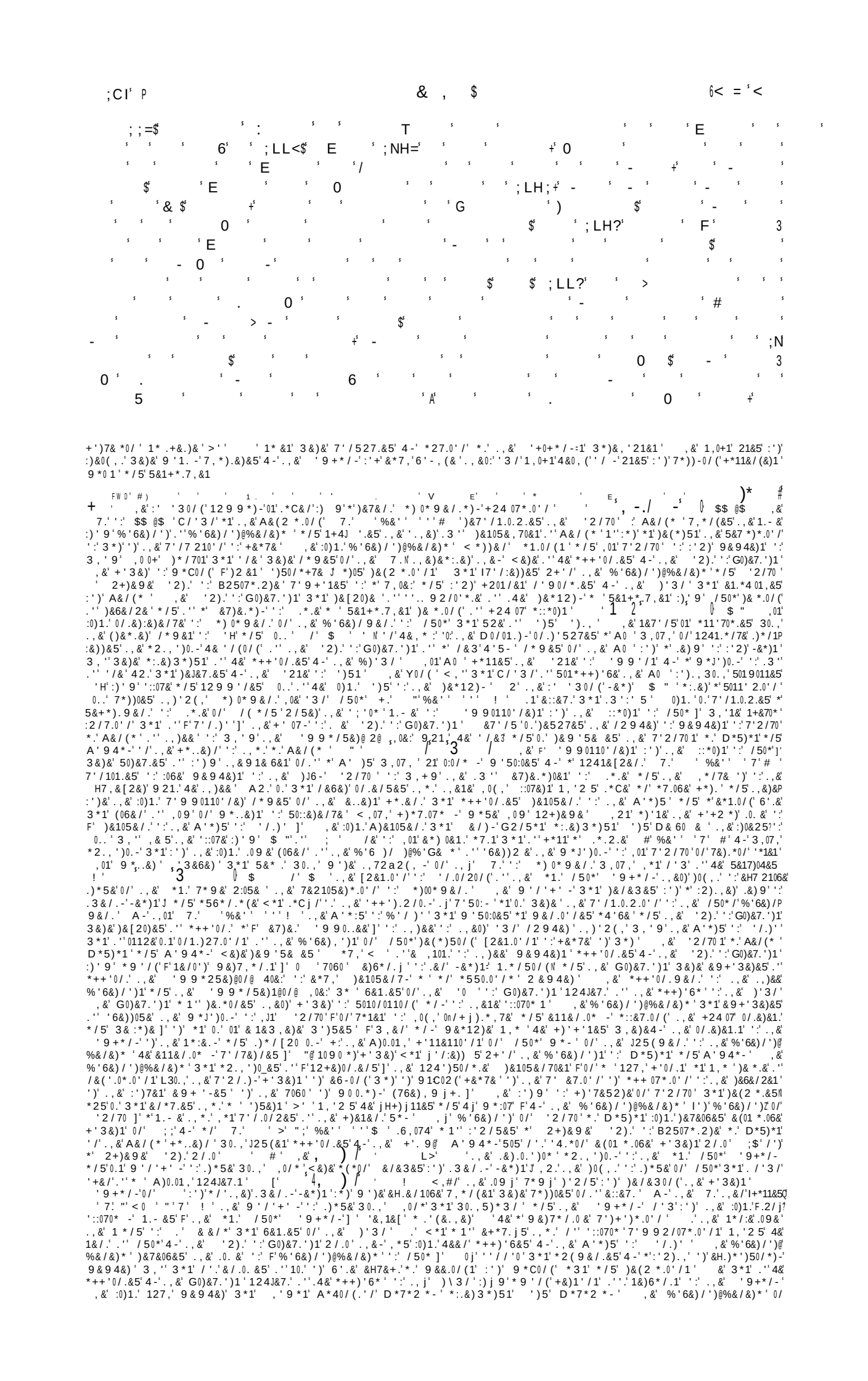


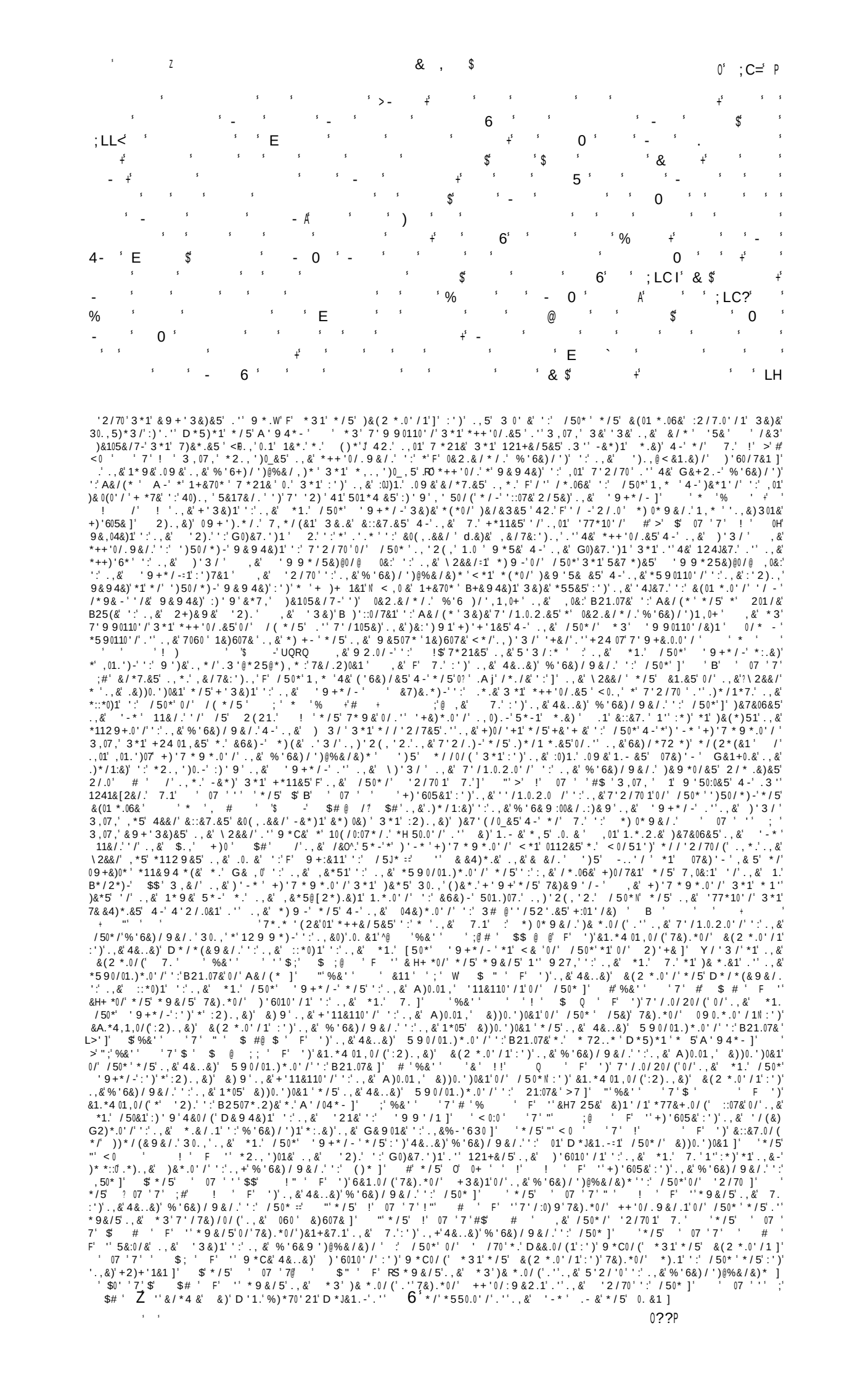


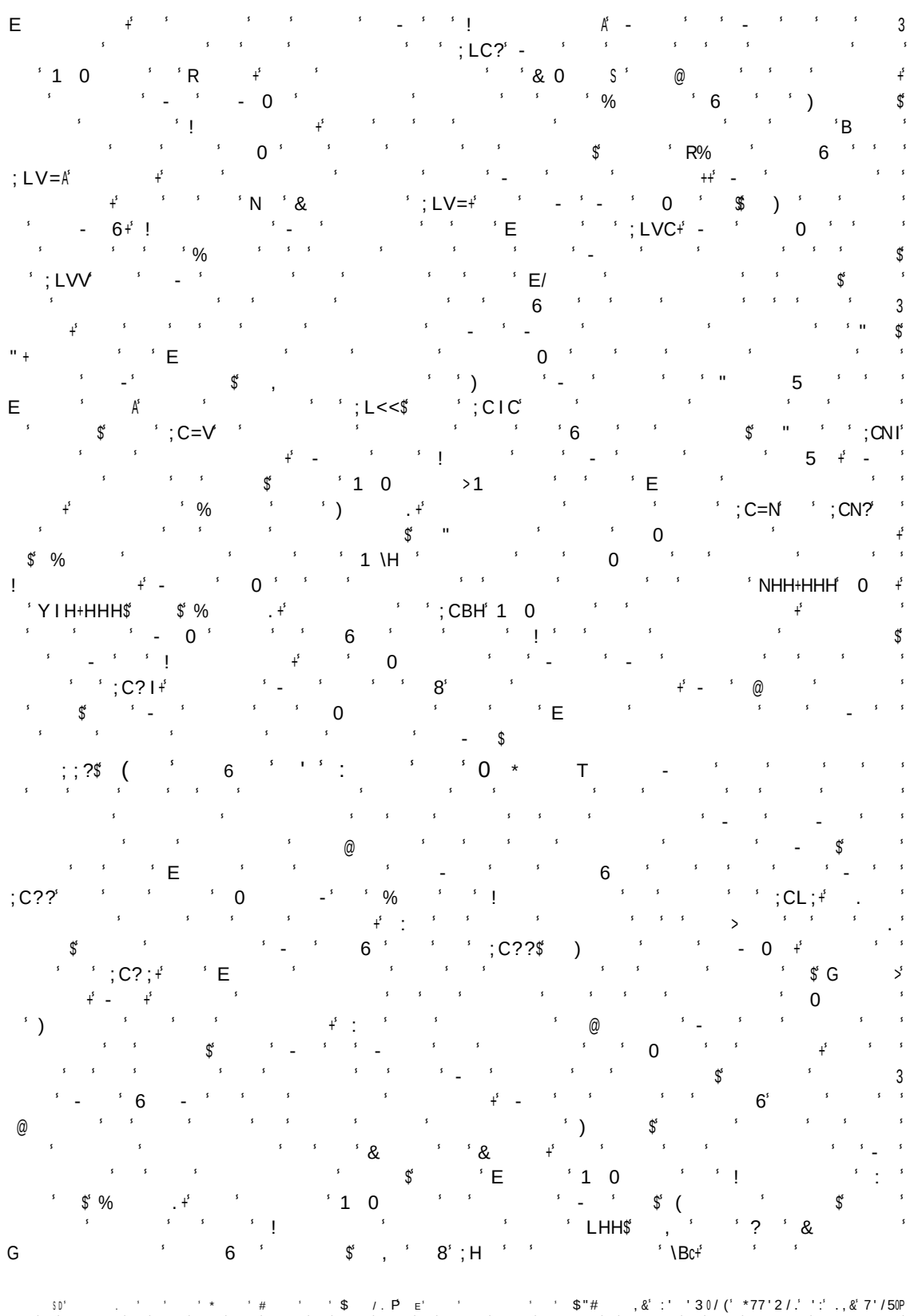




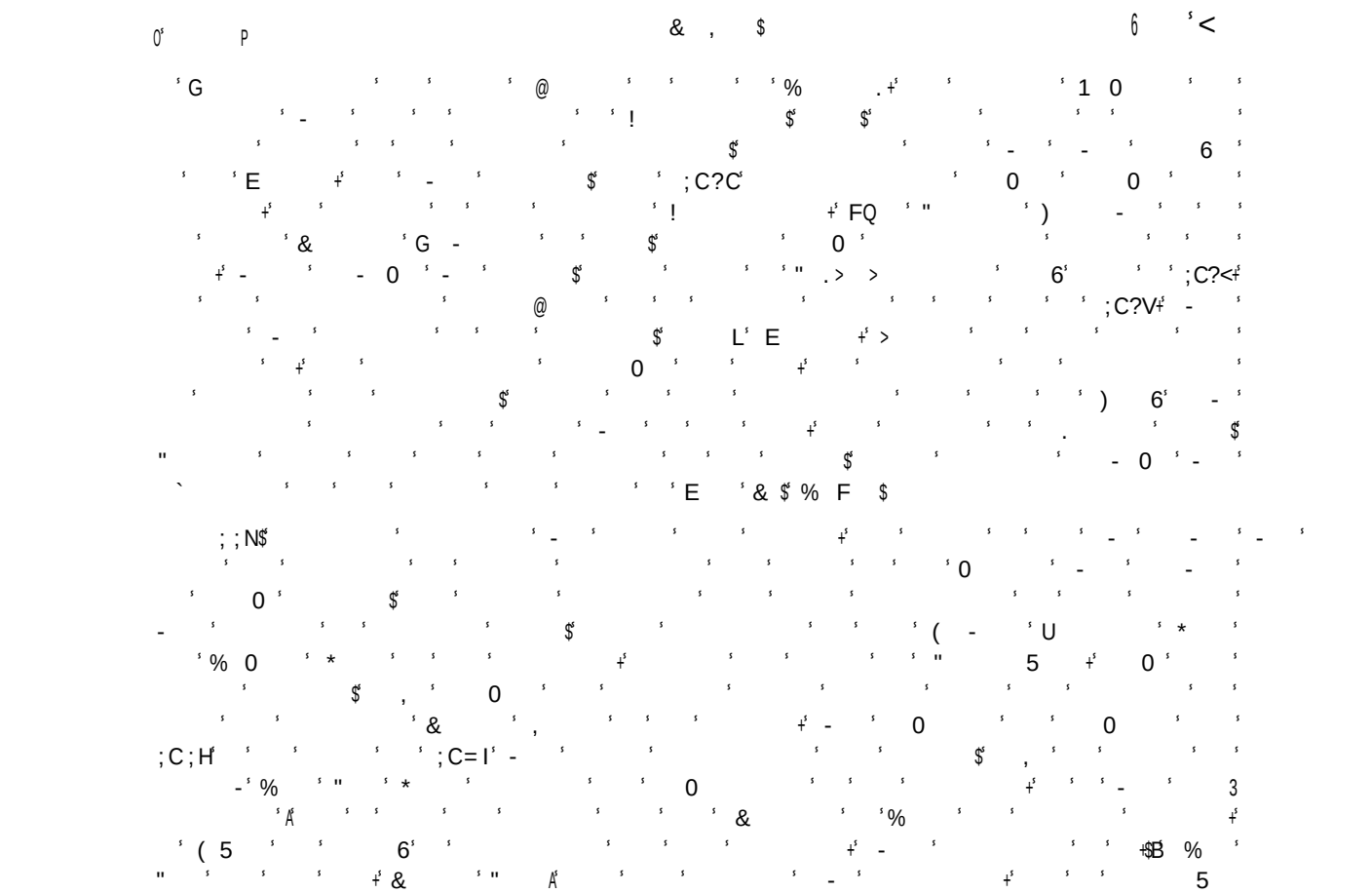


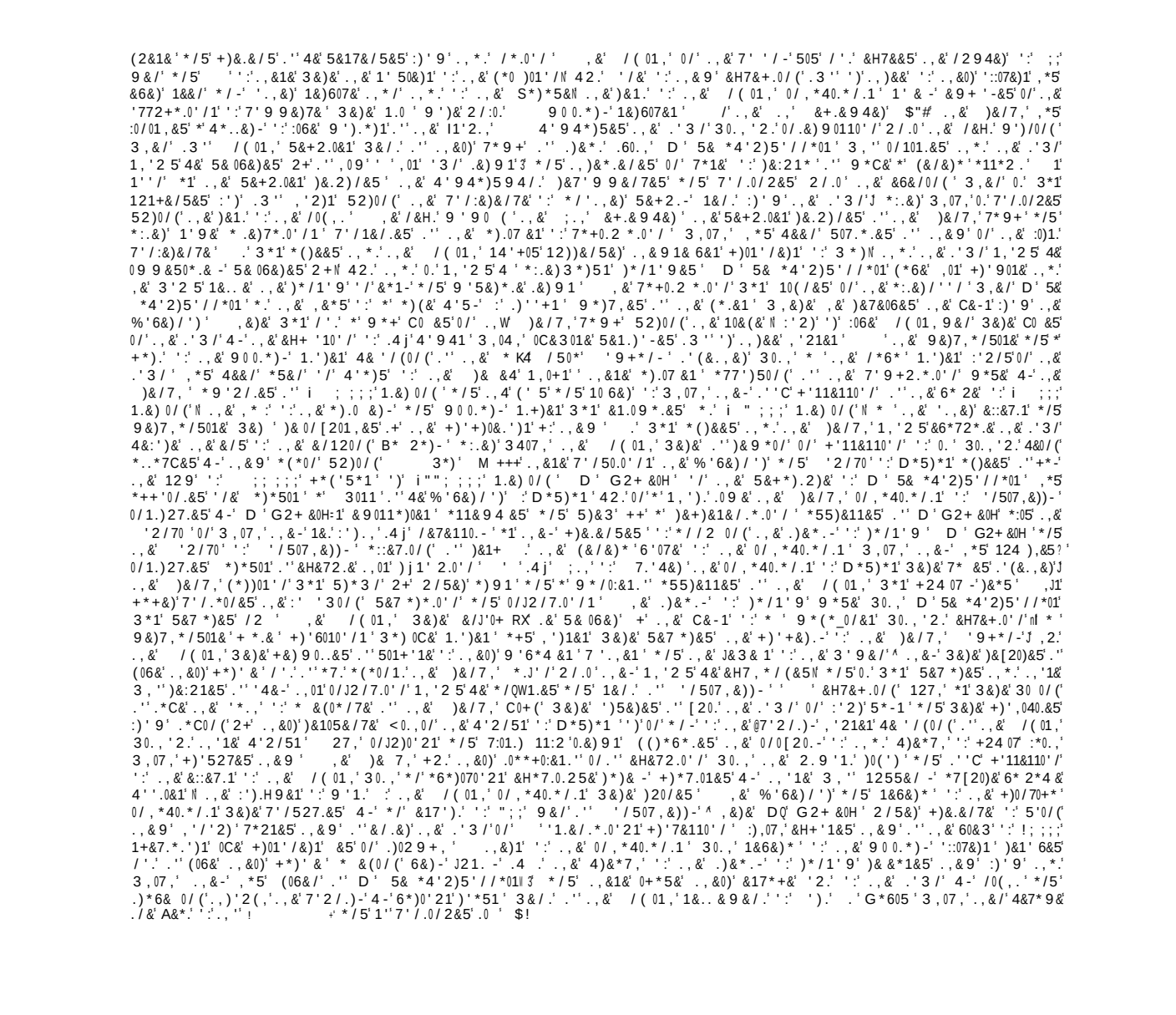


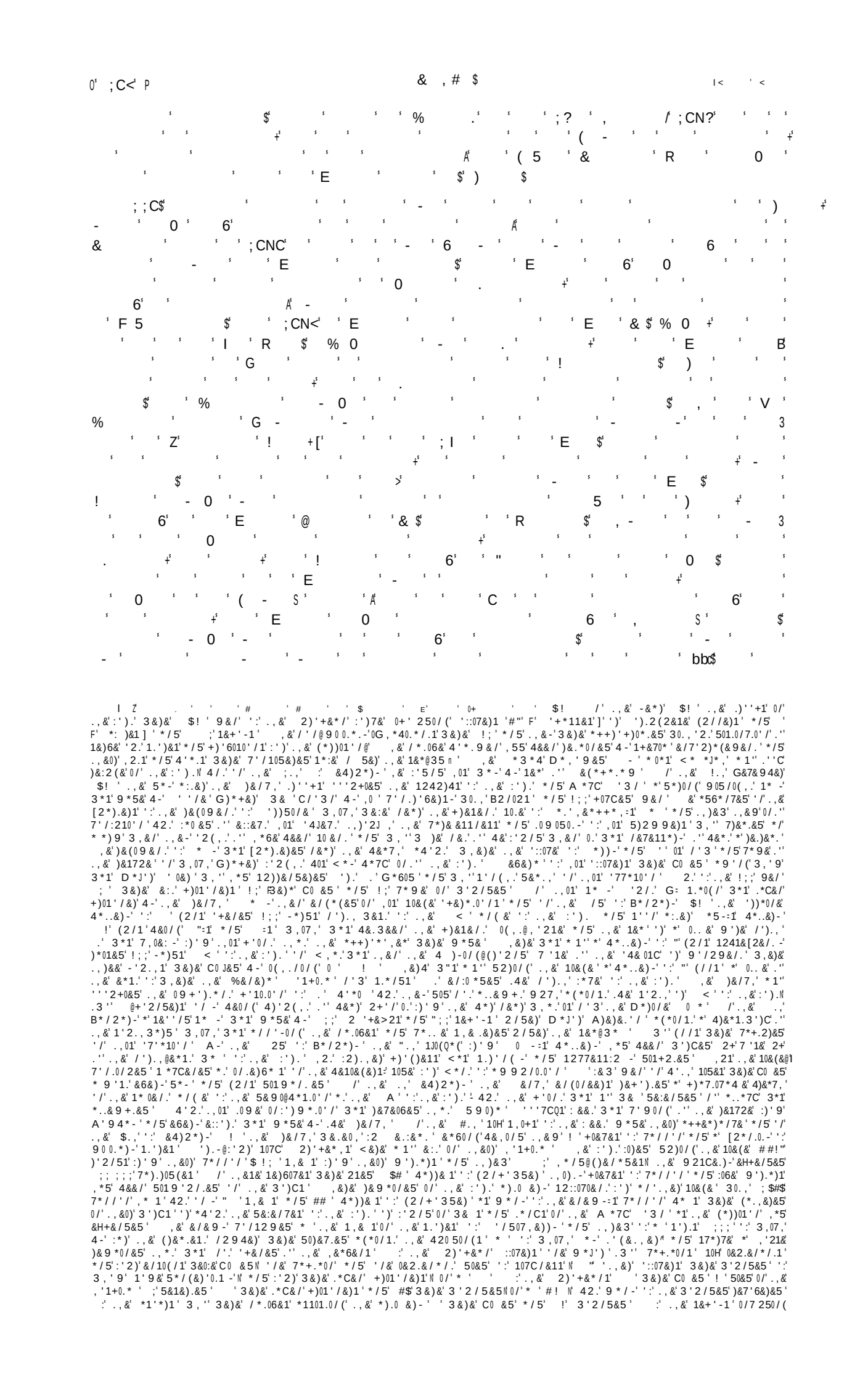


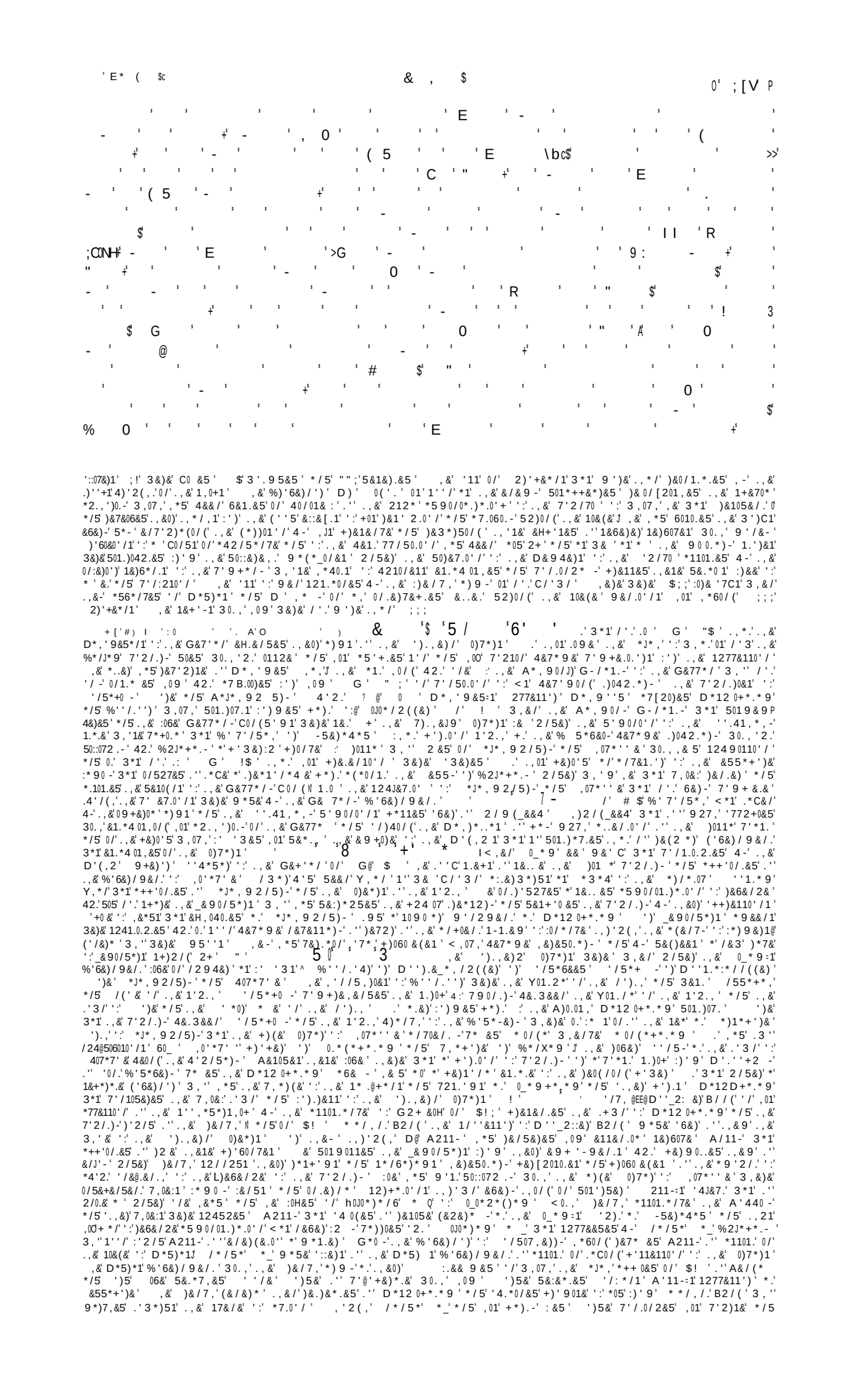


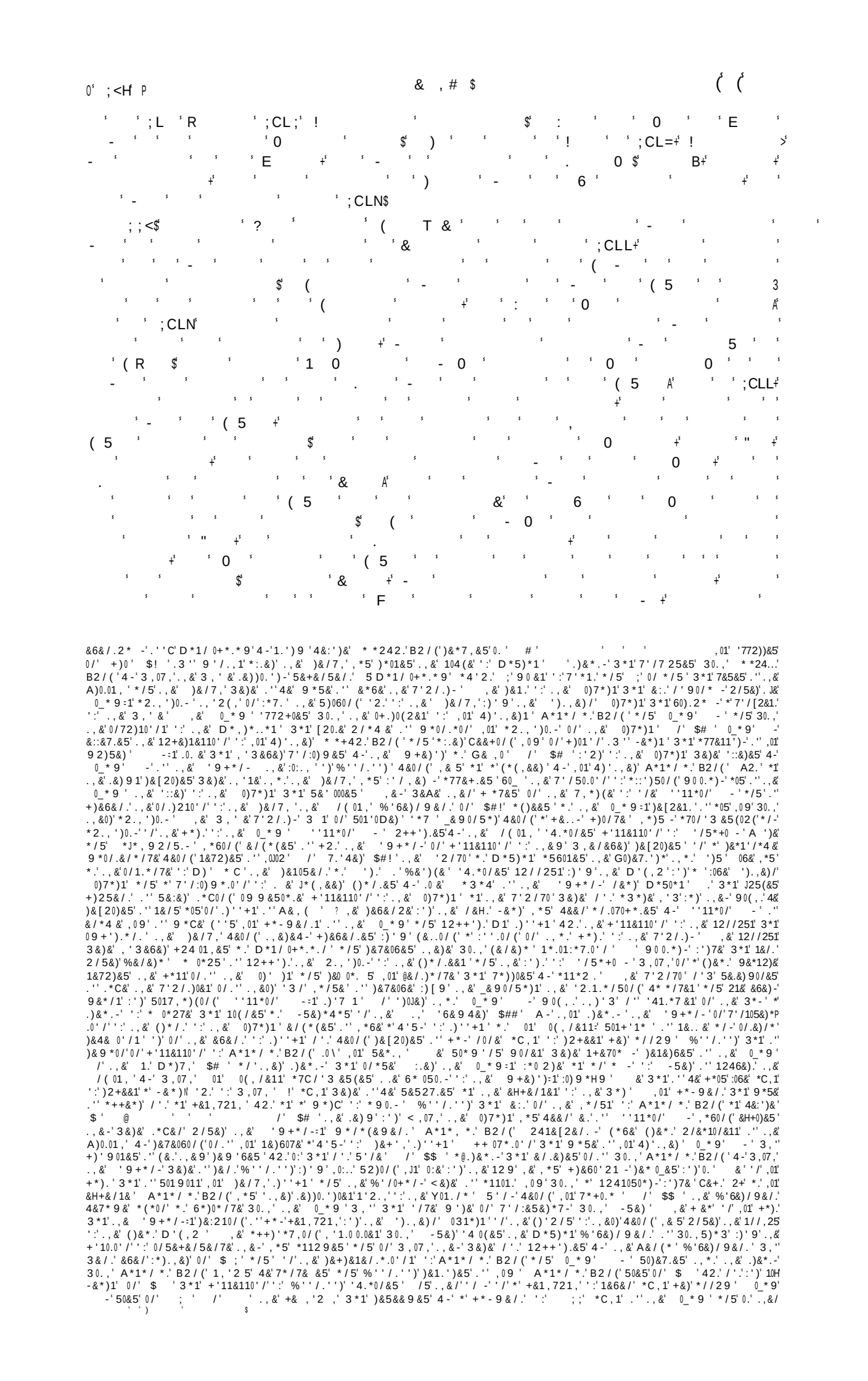
MAP
of Peninsular India
illustrating the British
Military period of History
Scale 1/186⅔ Inch to the Mile.
or 1/11827200 of nature
Miles
Saugor
Oojein
Bhopaul
Indore
Baroda
Surat
Ellichpore
Nagpore
Akola
Nassick
Dowlatabad
Aurungabad
Chanda
Calyaun
BOMBAY
Ahmednugger
Nundair
Poona
Sattara
Bedar
Warangal
Golcondah
Hyderabad
Ruttagherry
Beejapore
Vingorla
Goa
Kurnool
Vijeyanugger
Gooty
Savanoor
Hurry Hur
Chitteldroog
Coondapore
Tributty
Ryechore
Condapilly
Ellore
Godavery R.
Masulipatam
Kistna R.
Goondlacumma R.
Poolicat L.
Poolicat
Pennair R.
Cuddapah
Nellore
Amboor
Vellore
Arcot
MADRAS & Fort St. George
St. Thome or Meliapore
Palaur R.
PONDICHERRY
Fort St. David
Porteriaur R.
Cuddalore
Vriddhachellam
Vencotah
Coleroon R.
Cauvery R.
Carricall
Negapatam
Tanjore
Trichinopoly
Madura
Veigay R.
Tinnevelly
Tambraparny R.
C. Comorin
Princinalee
CEYLON
MYSORE
COCHIN
Mangalore
Bangalore
Seringapatam
Bhadramapoory
Tellicherry
Mahe
Ponnany R.
Ponnany
Periyaar R.
Cochin
Chandernagore
CALCUTTA
Chyelassa
Bradwan
Hooghly
Hooghly R.
Mahanuddy R.
Cuttack
Sumbulpore
Sodeypore
Jeypore
Vizianagram
Vizagapatam
Chicacole
Vamshadhara R.
Rajahmundry
Coringa
Yanam
Godavery R.
Chilka L.
Ganjam
Rooshcoolya R.
Berhampore
Royagooda
BAY OF BENGAL
NORTHERN CIRCARS
CANDEISH
BERAR
GOLCONDA
CARNATIC
BENGAL



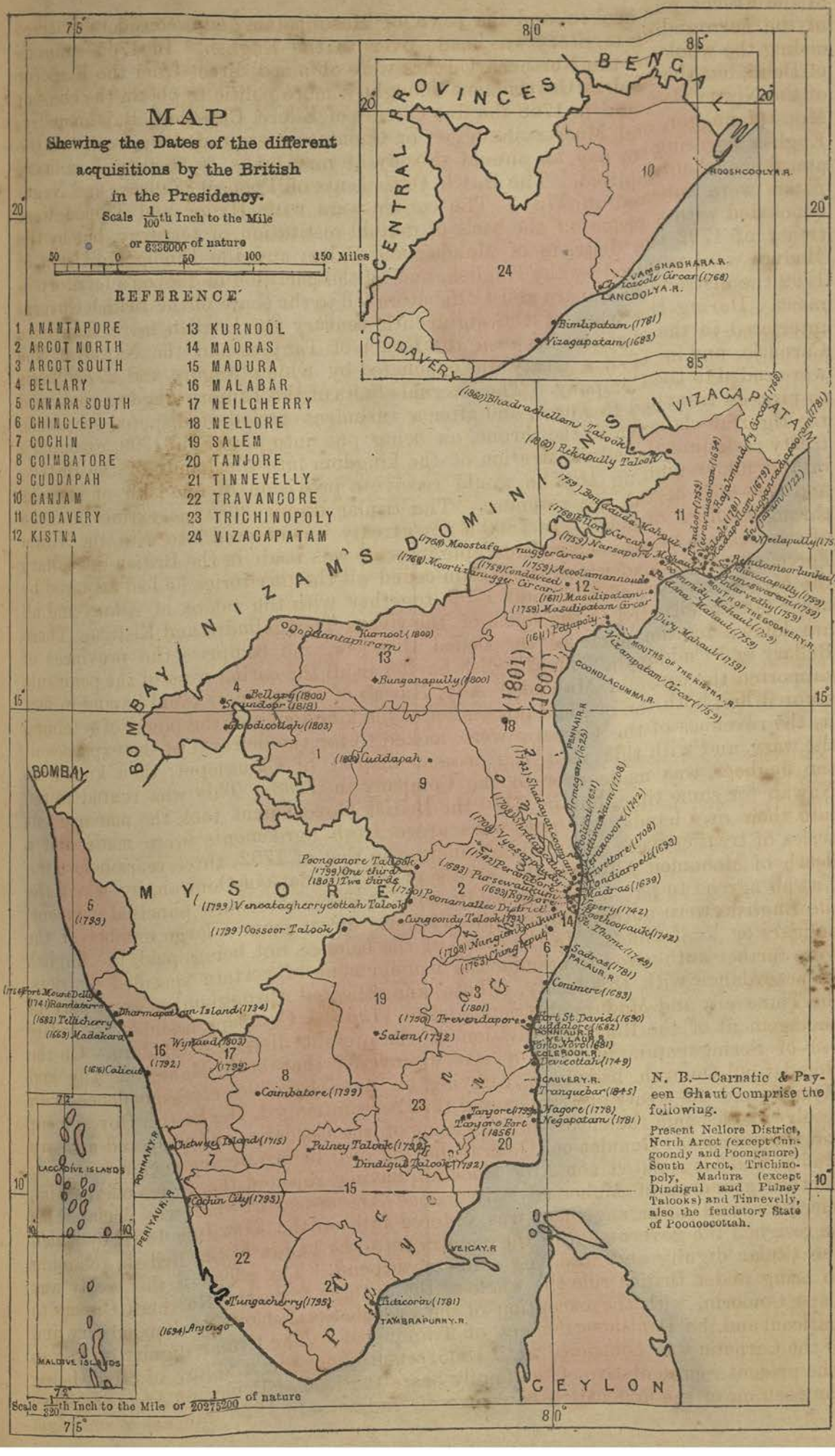






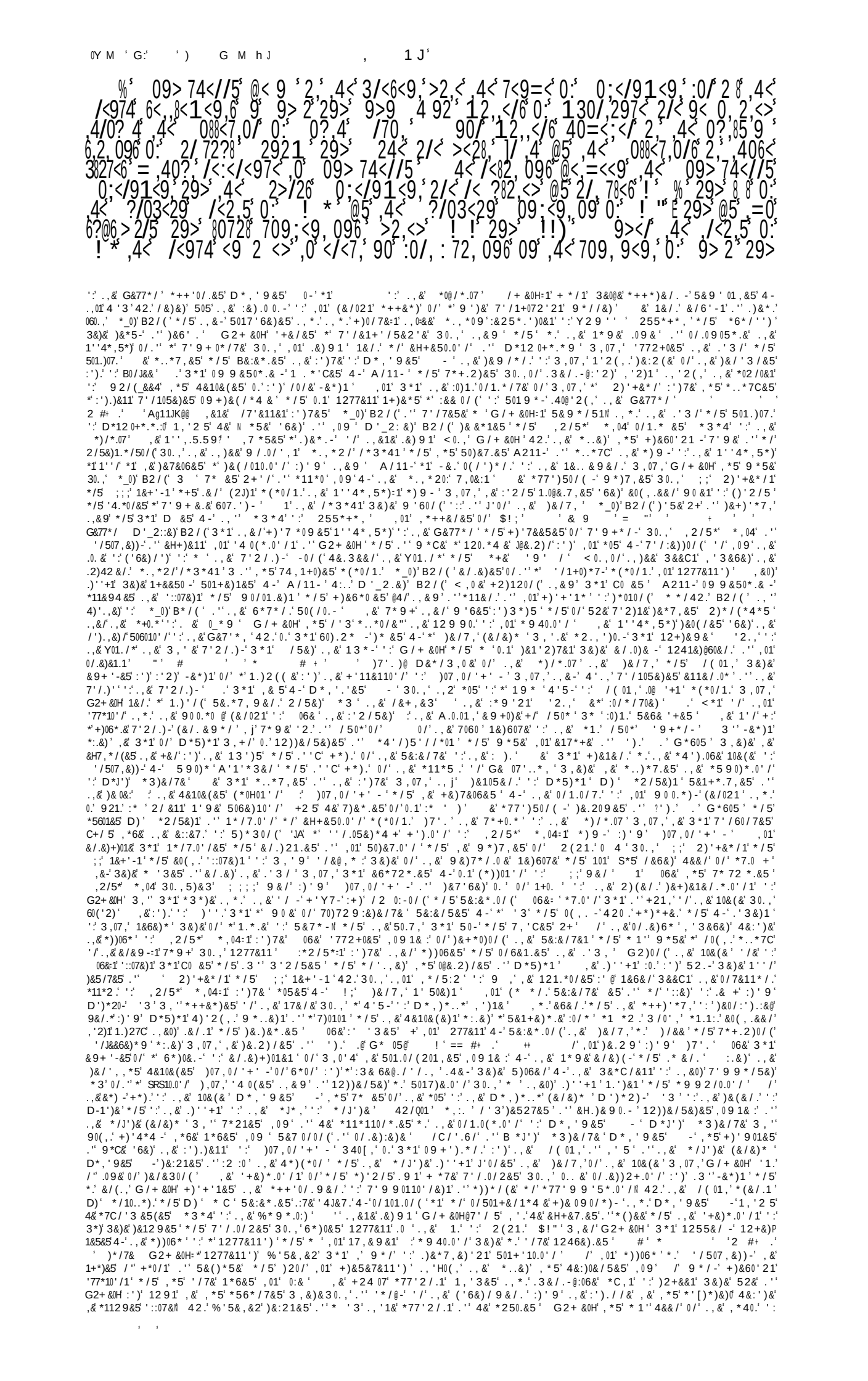


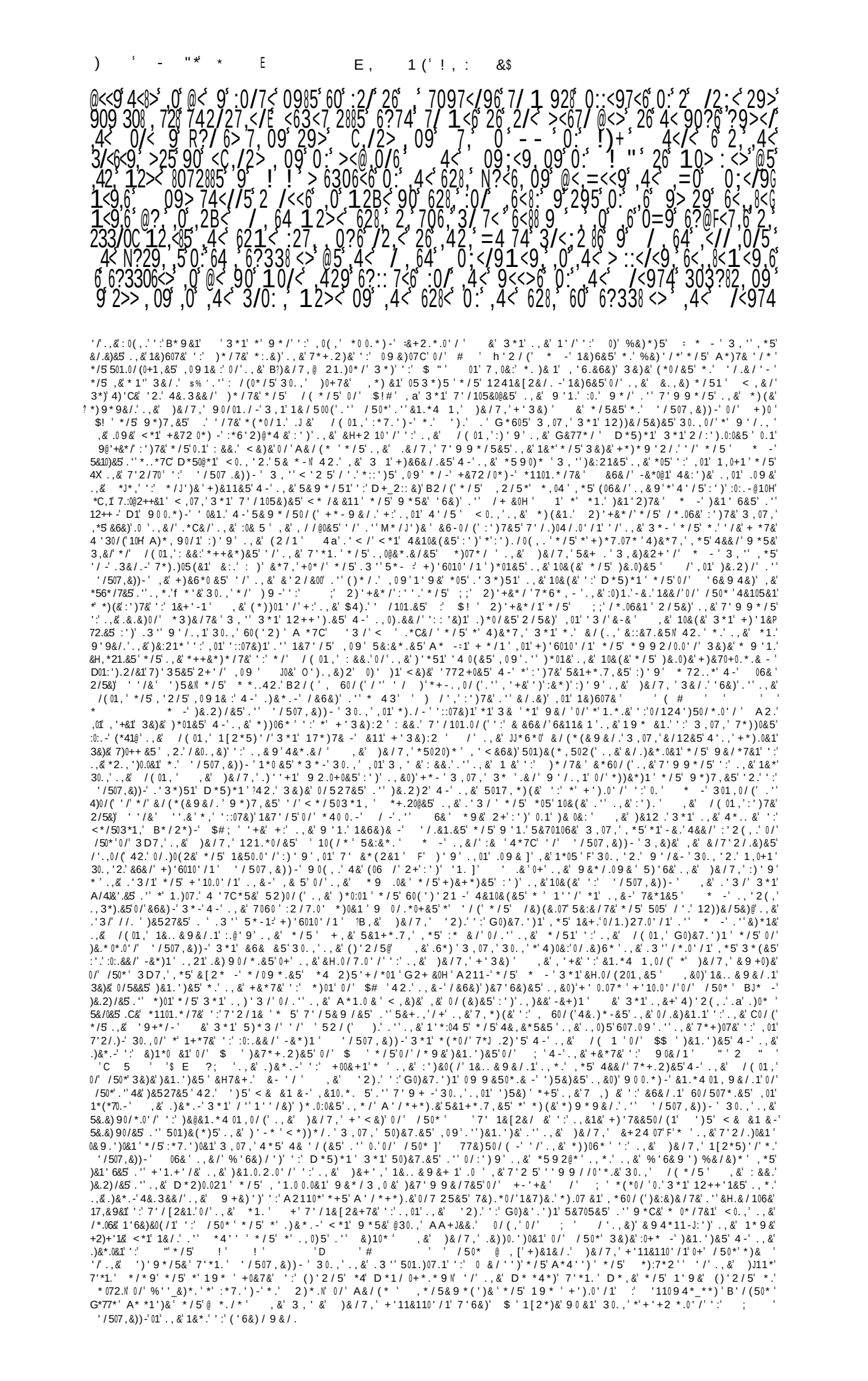
MAP
of the Central Districts of the Presidency
illustrating the wars in the Carnatic
Scale 1/64th Inch to the Mile. or 1/405040 of nature
64 32 0 64 128 MILES
80°
NIZAMS DOMINIONS
GODAVERY R.
COLAIR L.
Goontoor
Masulipatam
MOUTH OF THE KISTNA R.
COONDLACUMMA R.
Tongabudra R.
Kurnool
Vijianugger
BOMBAY
MYSORE
COIMBATORE
MADURA
PENNAIR R.
Cuddapah
Eastern Ghauts
Armegam
Poolicat
MADRAS & FORT ST. GEORGE
St. Thome or Mylapore
Ponamallee
Conjeveram
Villore
Arnee
Tripatore
Tiruvellipooram
Wandiwash
Chitput
Jinjee
Trinomalee
Vicravandy
Carangoly
Sadras
PALAUR R.
Alamparva
Valdavoor
PONDICHERRY
Arancoppam
PONNIAUR R.
Fort St. David
Cuddalore
Porto Nova
VELLAUR R.
Chidambaram
COLEROON R.
Pericollah
CAUVERY R.
Tranquebar
Caricaul
Nagore
Negapatam
Tiruvalore
Tanjore
Trichinopoly
Chuckelipollam
Vootatoor
Volcondah
Vriddhachellam
Yelavanausore
Tricolore
Villenoor
Bahoor
SHEVAROY HILLS
Trivelly
Lacnatore
Covelong
Chun gleput
Ootramalore
80°
10°
15°

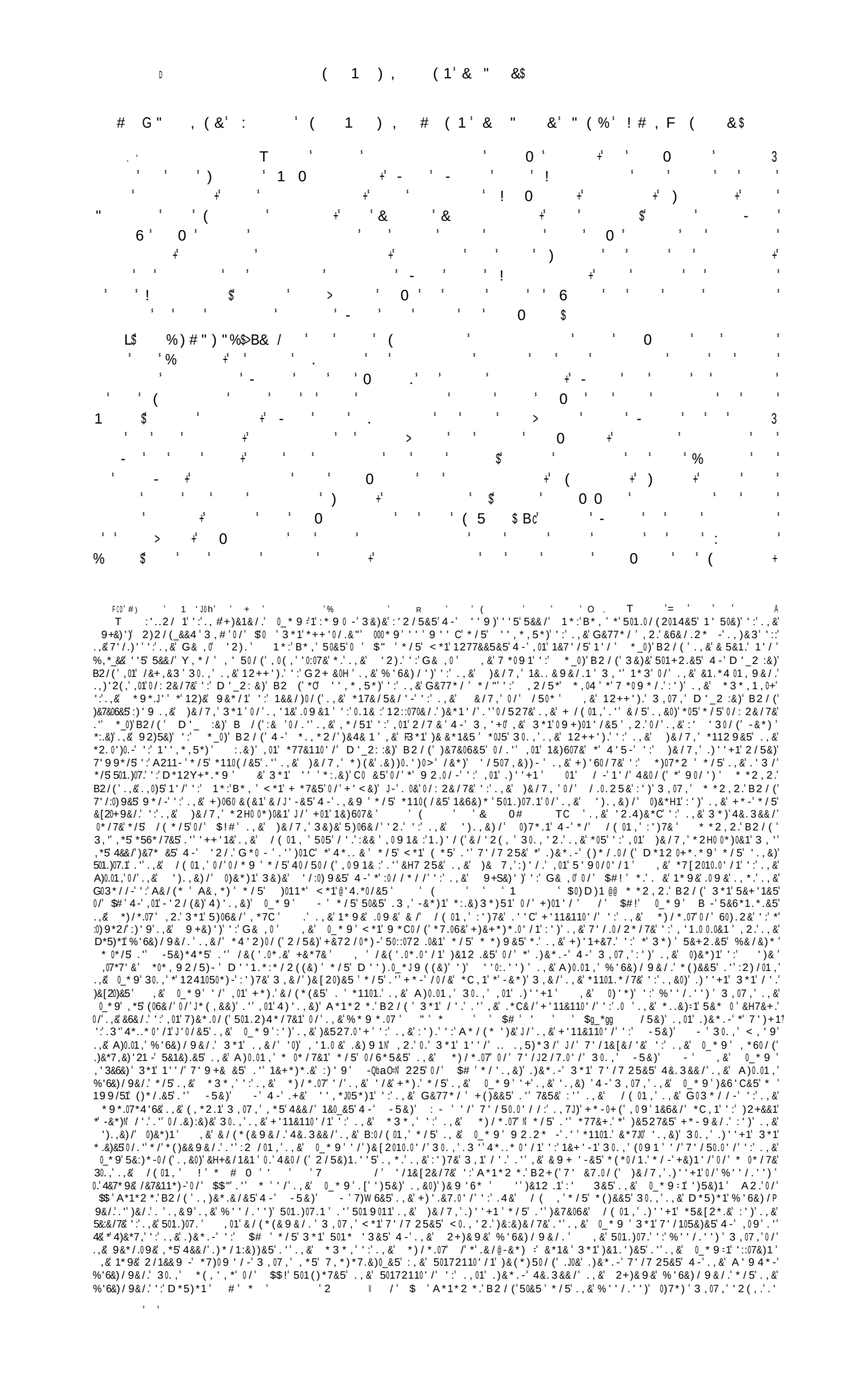


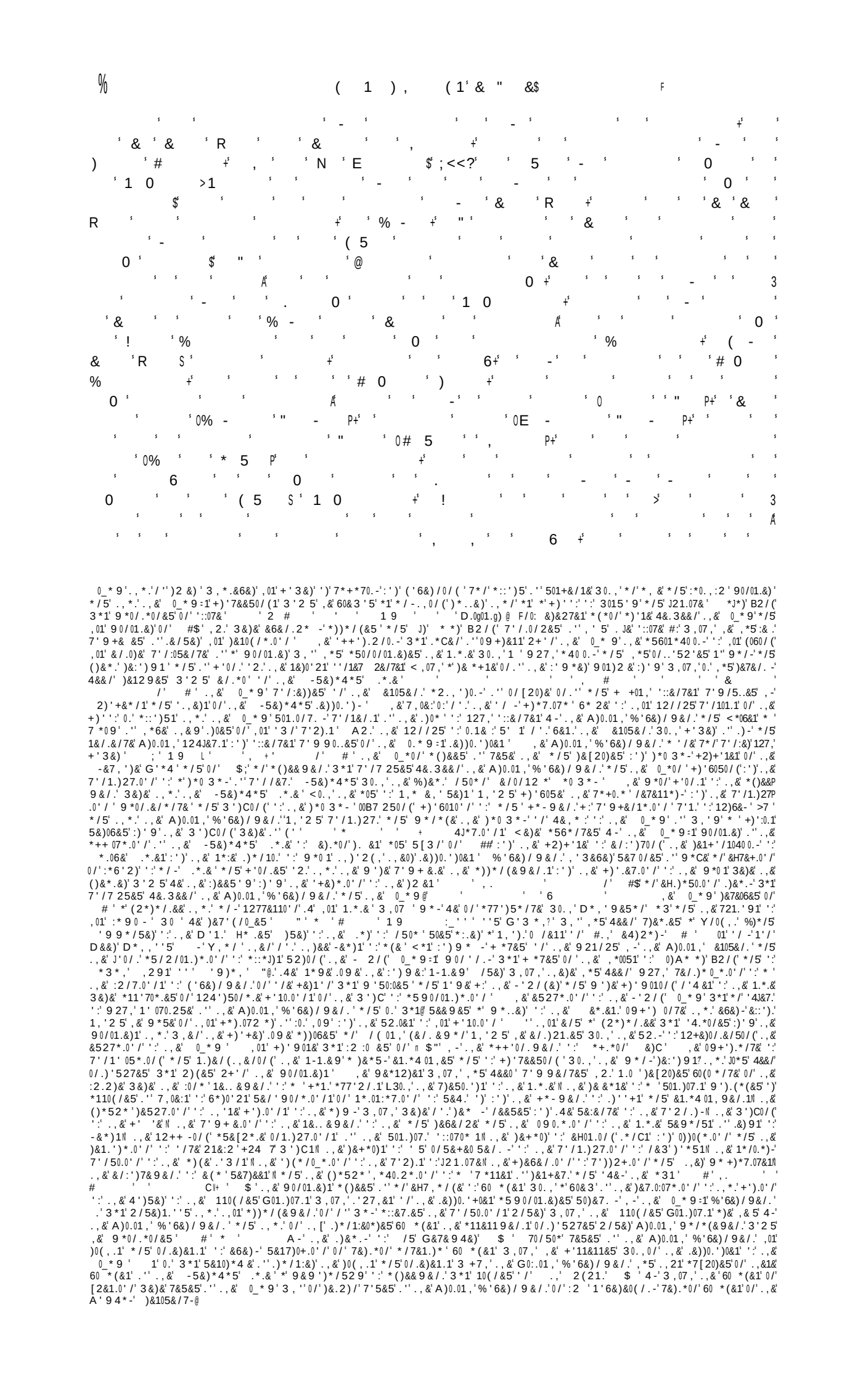
N. B.—Carnatic & Payeen Ghaut Comprise the following.

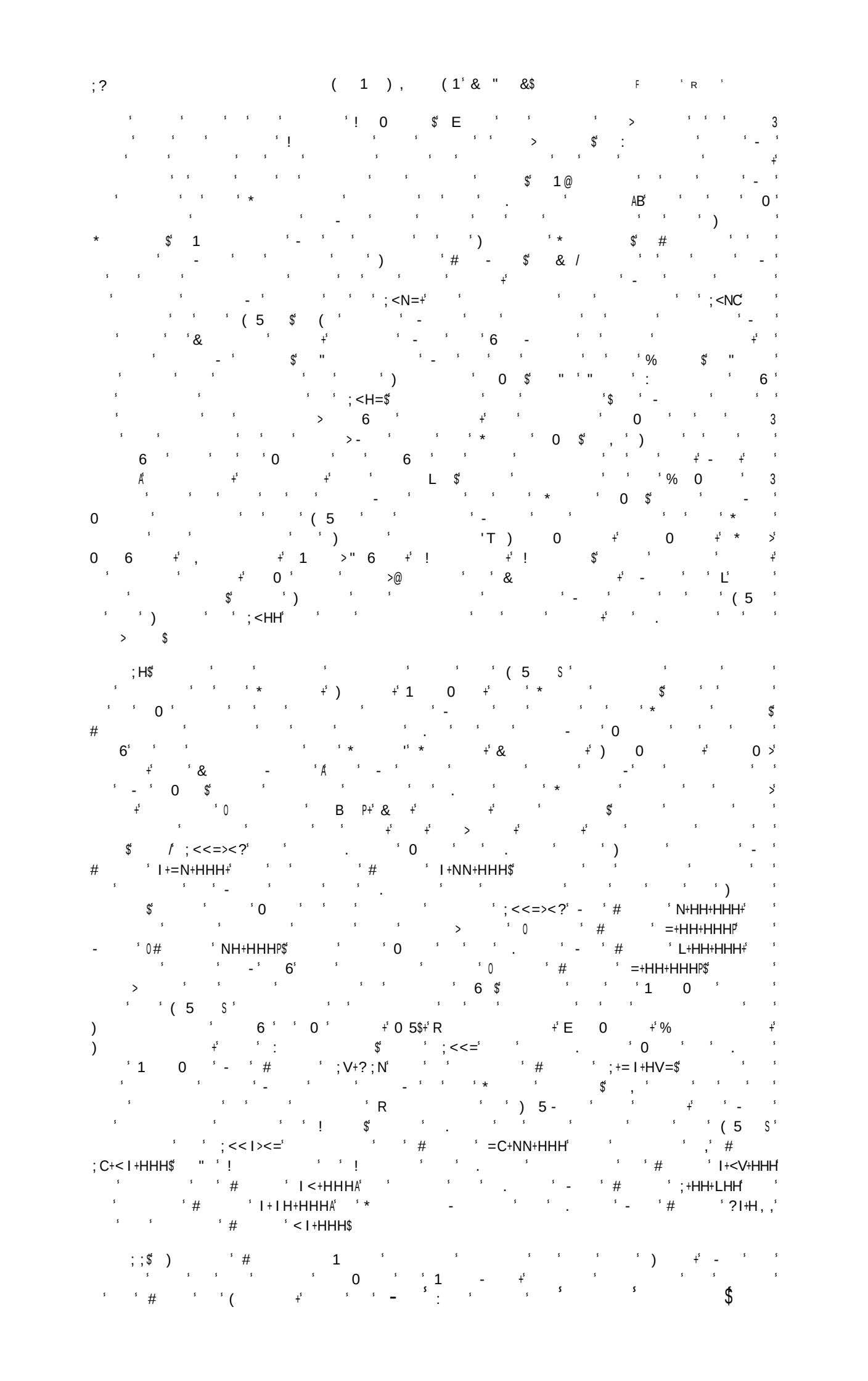
Present Nellore District, North Arcot (except Cunjoondy and Poonganore) South Arcot, Trichinopoly, Madura (except Dindigul and Pulney Talooks) and Tinnevelly, also the feudatory State of Poodoocottah.

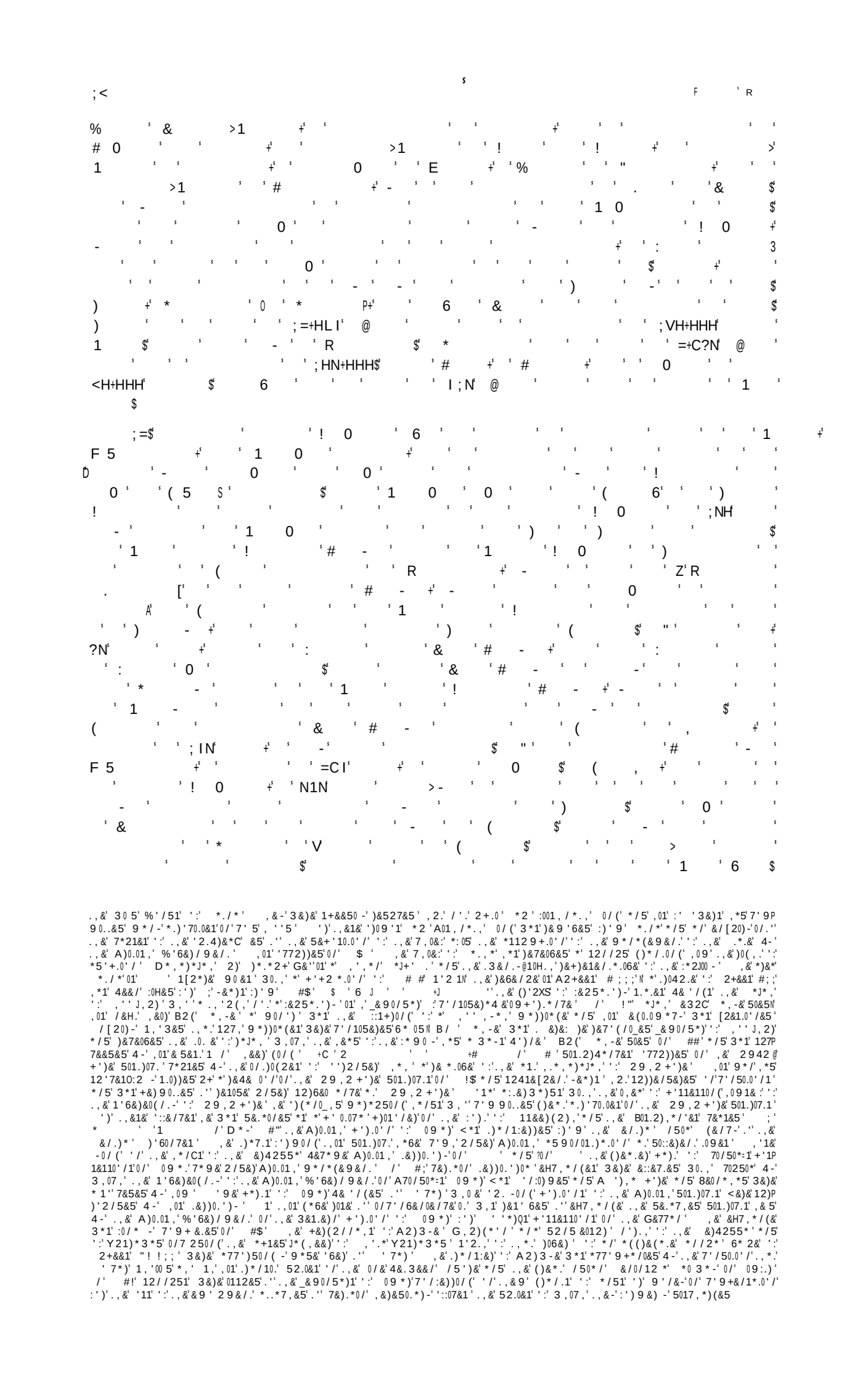


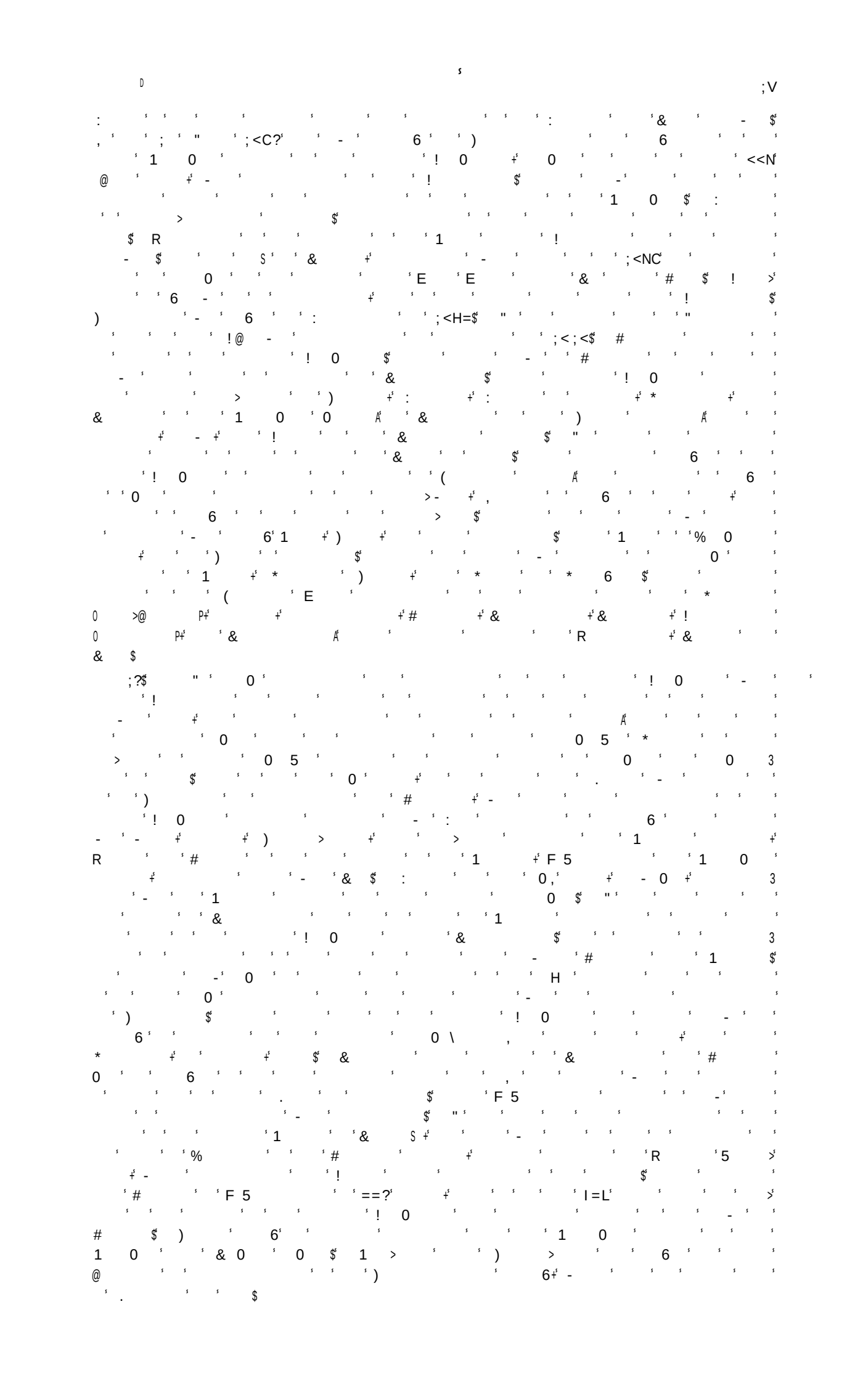


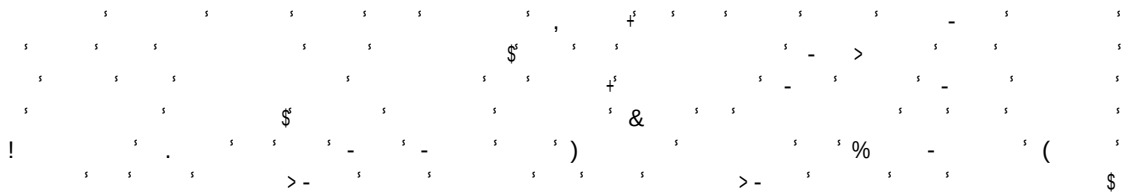




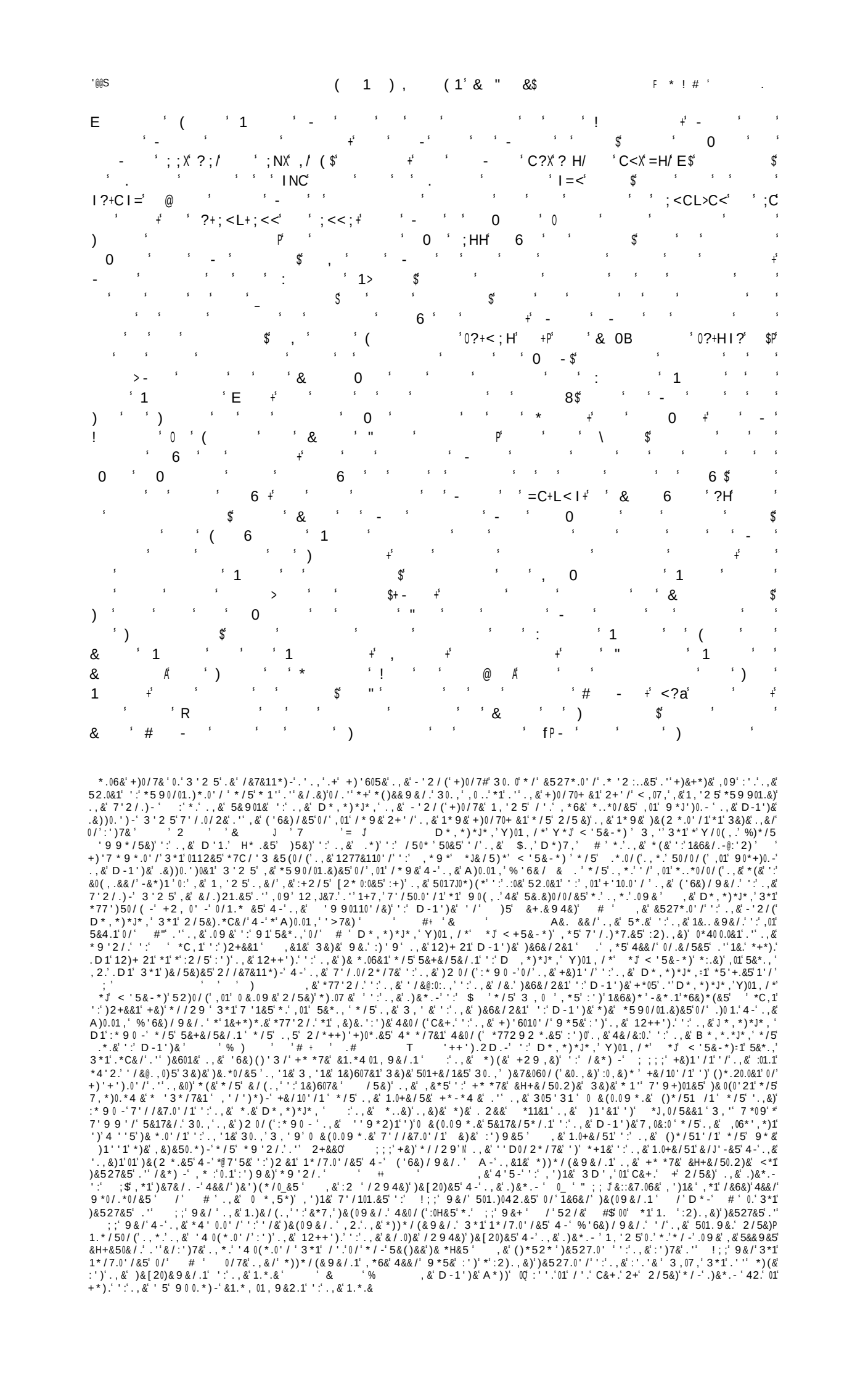


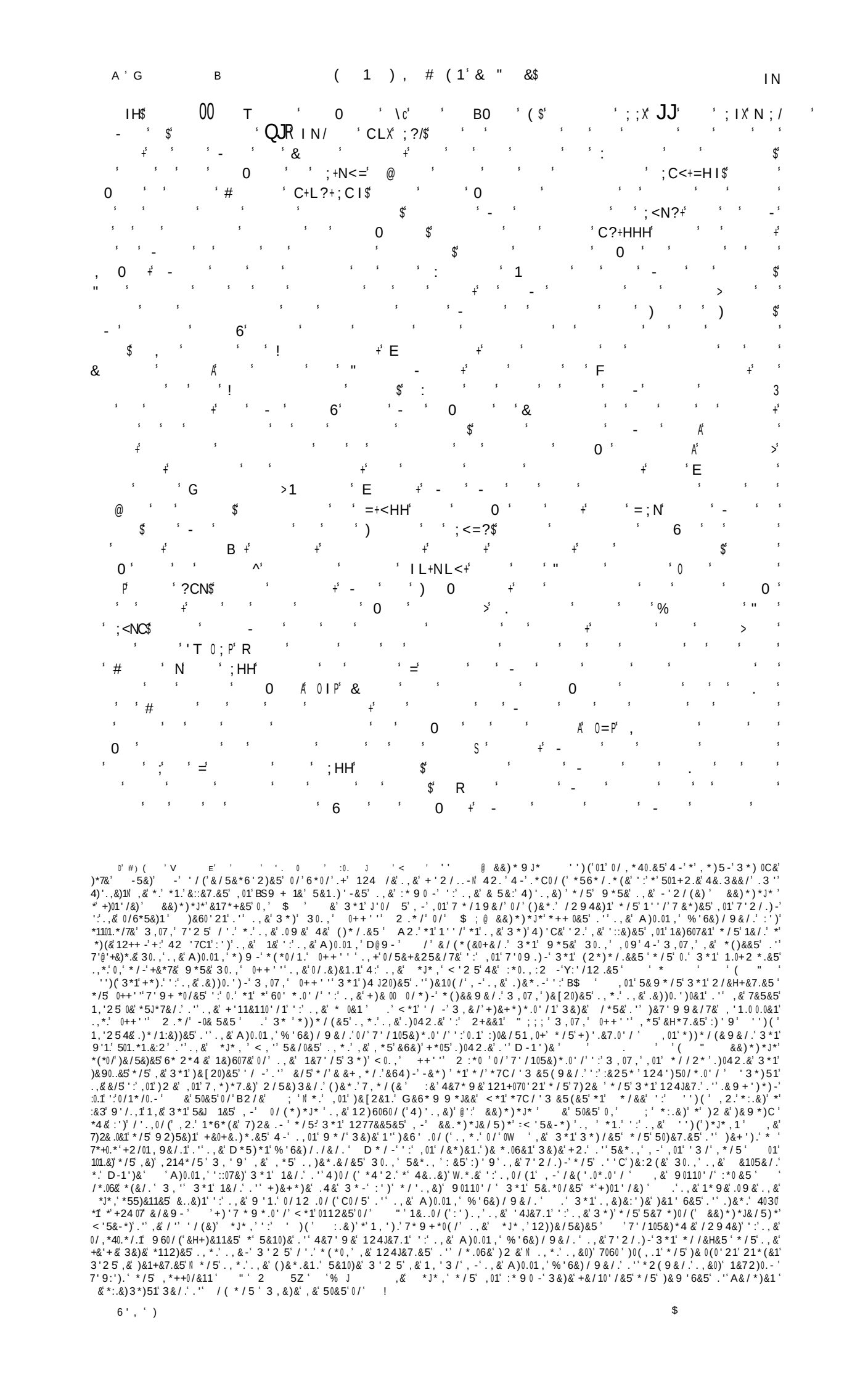


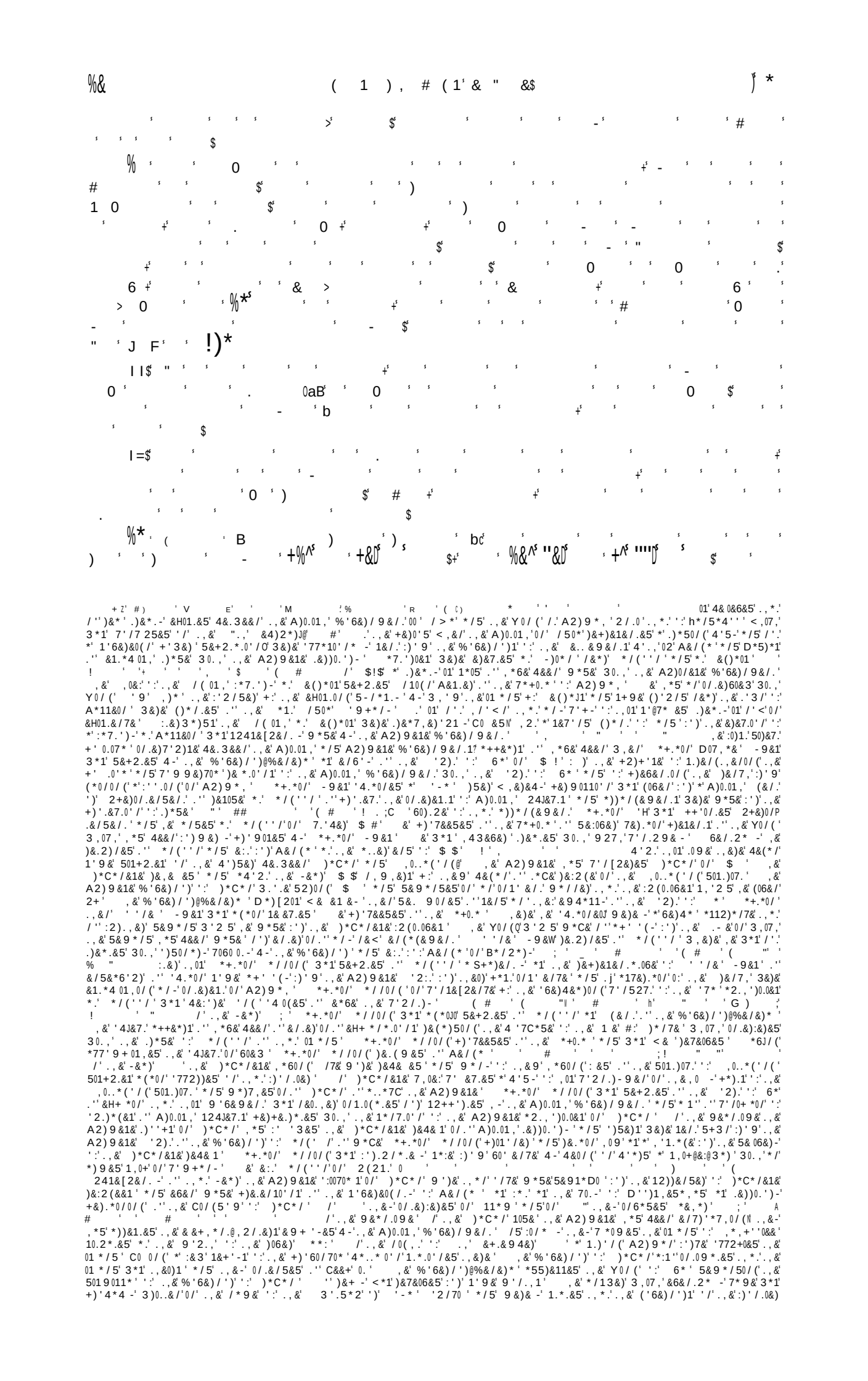


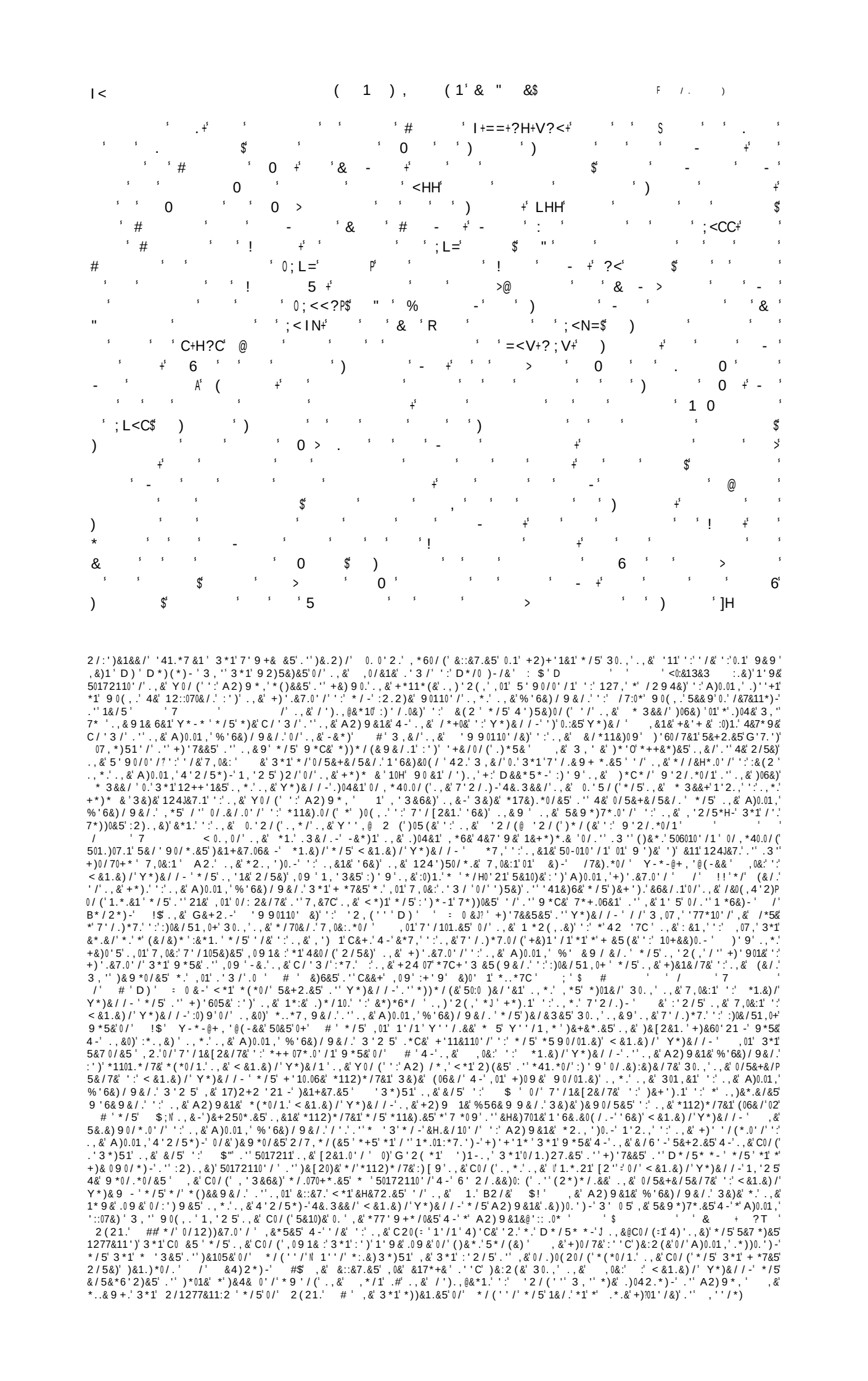


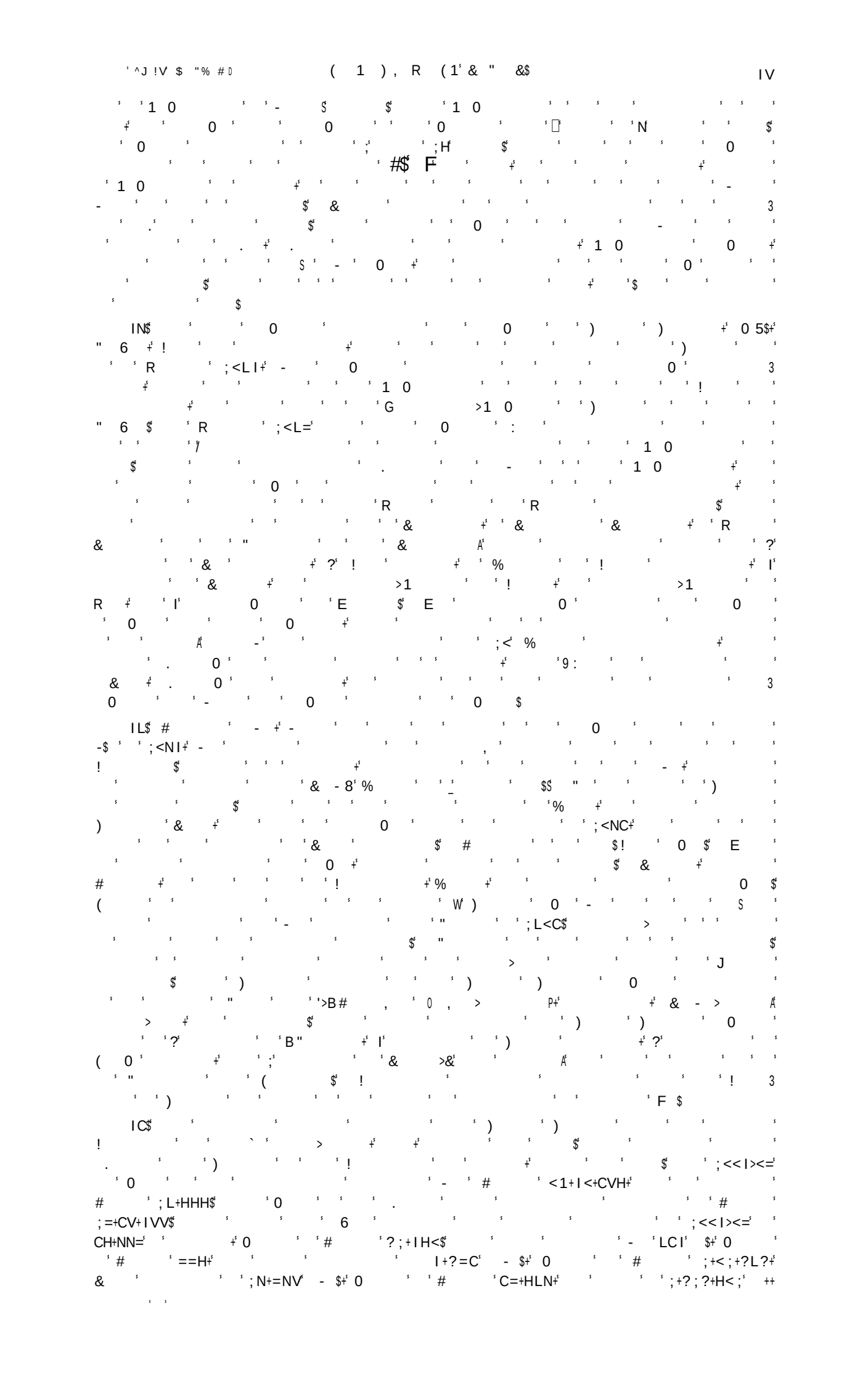
0++' '' 3&)&' 1&.' *105&' * / 5' . .&' 0 / 5 ' '' 5 - / *1 .-')&1. ')&5' *.' D -1 ')&' 2 / 5&)' Y)01 , / *' *J' < ' 5&-*) ' *' 7 , 0 5' ' :' . ,)&&' -&*)1' ' :' *(&' . , &' ()* / 51 ' / ' ' :' . , &' +)0 / 7&' 5&+ '1&5' 4 -' -5&)' -' : ') . -' -&*)1' 4&: ')&' , &' 501.)07.1' ' / ' . , &' 1&*' 7 ' *1.' ' :' D -1 ')&' * / 5' +)' 60 / 7&1' *5J' 0 / 0 / (' . , &' A)0.01 , ' .&))0. ')0&1' 0 / ' D * *4*)' * / 5' . , &' *) / *.07 ' J0& 50 / (' $ $$ $;' +*(' 5*1' 3&)&')&1&)6&5' 4 -' . , &' A)0.01 , ' %' 6&) / 9 &/ . ' , &' 501.)07.1' :' %' '))* 9 7 ' / 5 * , ' % ' ' . -' * / 5' ' . , &)1' 7 ' / .0(2 ' 21' . '' -5&)*4*5 ' -0& 50 / (' # ; $ ' +*(' 5*1' 3&)&' *110(/ &5' . '' . , &' 0_* 9 ' A)' 60 / '&1' -0& 50 / (' # !$' +*(' 5*1' 3&)&' ' ::&)&5' . ' 42 . ')&J&7.&5' 4 -' . , &' &1 , 3 * ' * / 5' 1241&[2&/ . -' 1 , *)&5' 4&. 3&&/ ' . , &' A)0.01 , ' %' 6&) / 9 &/ . ' * / 5' . , &' 0_* 9 ' N * / 5' . , &' - ' 2 / (' D * , *)*J* , ' 3 *1' +2 . ' 0 / ' +' 11&110' / ' :' . &))0. ')-' -0& 50 / (' $" ; $# +*(' 5*1' Y)01 , / *' *J' < ' 5&-*)' 3 *1' / ' :' *' +*). -' . '' . , &' +*).0.0' / ' .)&*. -' ' :' D -1 ')&' 1&&' . , &' *).07 &' / ' -5&)*4*5 ' ' . , &)301&' . , * / ' *1' . , &' / ' .0:0&5' :2.2)&')&70+0&/ . ' ' :' . , &' 4&)*, . -' ' :' . , &' A)0.01 , ' %' 6&) / 9 &/ . ' ' ' (06&' &:0&7. . '' 0.1' 04&)*' 0 / . &/ .0' / 1' . , &' A)0.01 , ' %' 6&) / 9 &/ . ' 7 ' / 7 25&5' *' 1241050*)-' .)&*. -' 3 0. , ' , 0 9 ' . '' 3 , 07 , ' . , &' 0_* 9 ' 3*1' / ' . ' *' +*). -' , &' 1241050*)-' . ')7&' : ')' 3 , 07 , ' . , &' D*, *)*J*, ' 3*1' . '' +*-' 1&6&/ ' *C , 1' ' :' +*(' 5*1' *' -&*)' N)&1&)6&5' . '' . , &' A)0.01 , ' %' 6&) / 9 &/ . ' . , &')0(, ' . '' *1129' . , &' 3 , ' &' ')' +*). ' ' :' . , &' D-1')&' .&))0. ')-' 0 :' . , &)&' 1 , +2 5' 4&' 7*21&' . '' *++)&, &/ 5' :*0 2)&' 0 / ' . , &' +*-9 &/ . ' ' :' . , &' 124105-' N)&[20)&5' . , &' D*, *)*J*0 . '' 7 ' / .)042 . &' . '' 9 &&' . , &' &H .)*')5 0 / *)-' &H+&/1&1' ' :' 3*) ' 127 , *' 129' *1' 1 , ' 2 5' 4&' 7 ' / 105&)&5' . '' 4&*)*' J21 . ' * / 5')&*1' / *4&+)' +') . 0 ' / ' . +' , 01')&6&/ 2&1' N * / 5' 4 ' 2 / 5' , 0 9 ' . '' (' ' 5' (' 6&) / 9 &/ . ' ; ' * ## L ' , &' 5&17&/ 5*/ . 1' ' :' 0++' '' 3&)&')&9 '6&5' . '' & ' :& ' 3 , &)&' . , &-' 3&)&' 04&)* -' +)' 605&5' :') ' :. &)' . , &' 9 2 . 0 / -' *. ' & ')&' 0 / ' 3 , 07 , ' . , &-' 3&)&' 4&0&6&5' . '' 4&' 7 ' / 7&) / &5' . , &-' 3&)&')&9 '6&5' . '' * 72 . . *' 3 , &)&' . , &-' 7 ' / . 0 / 2&5' . '')&105&' *1' 1 . 0+&/ 1&1' ' :' . , &' A)0.01 , ' 4 ' 2 / . -' . 0 ' # ; 3 , &/ *' *) (&' 129' . 6*1' 7*+0 . * 0_&5' *1' *' +)' 6010' / ' : ') ' . , &9 ' 30 . , ' *' 60&3' . '' . &) 90 / *. &' . , &0)' 5&+&/5&/7&' ' / ' . , &' 04&)* 0 . -' ' :' . , &' A)0.01 , ' %' 6&) / 9 &/ . ' * / 5' . '' *41')4' . , &9 '0 / ' . , &' (&/&)*' 9 *11' ' :' . , &' +' +2 * . 0 ' / ' ' , . " ' ; ' *' 12++ &9&/ . *)-' .)&*. -' 3*1' : ') 9&5' . '' &::&7. 7&) . *0 / ' &H7 , * / (&1' ' :' . &)) 0. ')-' 30 . , ' D -1 ')&' N */50 / ' ;$. , &' 129' 3 , 07 , ' . , &)&' 3*1')&[20)&5' . '' 7 ' / .)042 . &' . '' 9 &&' . , &')50 / *)-' &H+&/1&1' ' :' 3*)' 3*1' 7 ' 9 92 . &5' . '' . , &' 9*0 / . &/ * / 7&' 4 -' . , &' D*, *)*J*, ' ' :' *' :0H&5' 4 ' 5 -' ' :' , ')1&' 0 / ' +&*7&' * / 5' 3*) ' # ' ' ' ' " ' ' ' ' ' ' ' ' ' !) G2)0 / (' . , &' 90 / ')0 . -' ' :' . , &' D*, *)*J*, ' . , &' *590 / 01.)*.0 ' / ' 3*1' 7 ' / 527.&5' 4 -' * / ' *4 &' A)*, 90 / ' 90 / 01.&)' / * 9&5' ' ') / 0*, ' 3 , '' 3*/' 10 / 6&1.&5' 30 . , ' :2 ' + ' 3&)1' ' :' *590 / 01.)*.0 ' / ' &' 7 ' / . 0 / 2&5' 0 / ' ' ::07&' . 0 ' 3 , &/ ' , &)&10(/ &5' . , &' ('6&) / 9 &/ . ' 0 / . ' ' . , &' , * / 51' ' :' . , &' D*, *)*J*, ' &*60 / ('0 / ' . , &' .)&*12)-' *' 129' &H7&&50 / (' . 3 ' ' 7)')&1' ' :')2+&&1 ' A-' *' ' . 9 . 0+2&5' 7 ' 2)1&' ' :' 901('6&9 9 &/ . ' . , &' D*, *)*J*, ' 5)' 6&' . , &' ()&*.&)' +*). ' ' :' , 01' 124J&7.1' 0 / . '')&4& 0 ' / ' ' . , &5*/(&)' ' :' . , &' +&*7&' ' :' . , &' / &0(, 4 ' 2)0 / (' A)0.01 , ' 501.)07.1' * / 5' 0 / ' ' 0 . ' 4&7*9&' / &7&11*)-' :')' . , &' A)0.01 , ' %' 6&) / 9 &/ . ' ' 0 / . &):&)&' , &' B * , *)*J*, ' , *5' 5011000*. &5' * ' . , &' .)&*12)&' *7[20)&5' 4 -' . , &' G03*/ ' ' 90*, ' */5' 0 / 6 ' 6&5' , 09 1&:' 5&&+ -' 0 / ' 5&4. ' . 30 . , 1.*/50 / (' +)' 901&1' . '' +2 . ')&1 .)*0 / . ' '+' , 01' 60' 0 ' / 1' &H+&/50 . 2)&' , &' , *5' * 0&/*. &5')&6&/2&1' */5' 1' 5' &H7 2106&' +)060&(&1' */5' 1 . *.+' ' ::07&1' . '')*01&@:2 / 51' : ')' , 01' &H .)*6*(*/7&' , &' +*-' ' :' , 01' .)' '+1' 3*1' 0 / ' */9)1 ' H . ') . 0 ' / 1' */5' 7)2&. 0&1' <&)&+)*. .01&5' : ')' 3 , 07 , ' . , &)&' 3&)&' / '' 9&*/1' : ')&5:&11 ' , &')-' . 1' 7 ' 940 / &5' 0 / ')&101.*/7&' */5' *.' *1 . ')&4& 0' 2' 4)' C&' 2 . ' 7* 0 / (' : ')' . , &' *7.06&' &H&) . 0 ' +1' ' :' *' *)(&' A)0.01 , ' : ')&&' 0 / ' *550.0 ' / . ' ' . , &' 3 , ' &' 900.*)-' +' 3&)' ' :' . , &' D*, *)*J*, ' " ()'11' <*1' . , &' 9019*/*(&9&/ . ' *7' 9*/*(&9&/ . ' :' . , *.' 0 . ' < 1' 5&&9&5' /&7&11*)-' :')' . , &' A *.01 . ' 96&)/9&/ . ' 2/5&)' . , &' +)' 6010' /1' ' :' . , &' .)&*.-' ' :' $ ' . '' *1129&' . , &' 50)&7 . ' @9*/*(&9&/ . ' :' . , &' .*.&' 124J&7 . ' . ' . , &' 7 *09' :' . , &' D*, *)*J*, ')&1&)6&5' 4 -' . , &' .)&*.-' . '' *' +)' 6010' / ' :' /&*C , ' ' :' .*)' +*('5*1' +&)*/+ 9' */5' /&@:0:. , ' ' :' . , &' /&.')&6&/2&')&*0_&5' :)' 9' . , &' .&))0. ')-' 2 / .0' *))*/(&9&/ .1' : ')' . , &' (' ' 5' (' 6&) / 9 &/ . ' :' . , &' 7' 2 / .)-' 1 , ' 2 5' 4&' 1' ' :0) 9 -' &1 . *4 01 , &5' *1' . '' 1&72)&0 . ' :) ' 9' :2 . 2)&' 501 . 2)4*/7&*' ' J L ' ##+ ' ' ' ' ' ' ' ' ' ' /' ' , &' %' 6&) / 9 &/ . ' :' /50*' +)' +'1&5' . , *. ' . , &' D*, *)*J*, ' 1 , ' 2 5' 7&5&' . , &' 501.)07.1' ' :' 2((&)' , 0 . / 5)' ' (' */5' A*/(*')&' */5' *1' 927 , ' . &))0. ')-' *1' *:. &)' +*-0/(' . , &' &H+&/1&1' +:' 9*/*(&9&/ . ' < ' 2 5' -0& 5' *')&6&/2&' &[2*' . '' . , &0)' 7 *09 1' / ' . , &' D*, *)*J*, ' 3 , 07 , ' *9 ' 2 / . &5' . '' *4 ' 2 . ' . , 0)&&/' *C , 1' ' :' +*('5*1' *' -&*)N */5' . , *. ' . , &')&9*0 / 0 / (' 501.)07.1' 1 , ' 2 5' 4&')&1 . ')&5' . '' . , &' D*, *)*J*, ' 2 / 5&)' 1&72)0.0&1' : ')' (' ' 5' (' 6&) / 9 &/ . ' A2 . ' . ' , 01' . , &' ' 9&' *2 . , ')0.0&1' 4J&7.&5' 29&)' 21' *++ 7*.0' / 1' : ')' . , &')&1 .)*.0' / ' ' :' , 01' 1 . *.&' 3&)&' 9*5&' 4 -' . , &' D*, *)*J*, ' , &')&*1' / 1' (06&/ 0 / ' # ' : ')' . , &')&J&7.0' / ' ' :' . , &1&' *++ 07*.0' / 1' < &)&' . , *. ' . , &' 09+)' 6&9&/ . ' < , 07 , ' , *5' , &&/' &:: 7.&5' 0 / ' . , &' *590 / 01.)*.0' / ' ' :' C -1 ')&' , *5' 4&&/' &:0+&.&5' 0 / ' 1+0.&' ' :' 7 ' 2 / . &)*7.0' / ' ' / ' . , &' +*) . ' ' :' . , &' D*, *)*J*, ' +' -0 / (' . , &' &H+&/1&1' +:' 9*/*(&9&/ . '

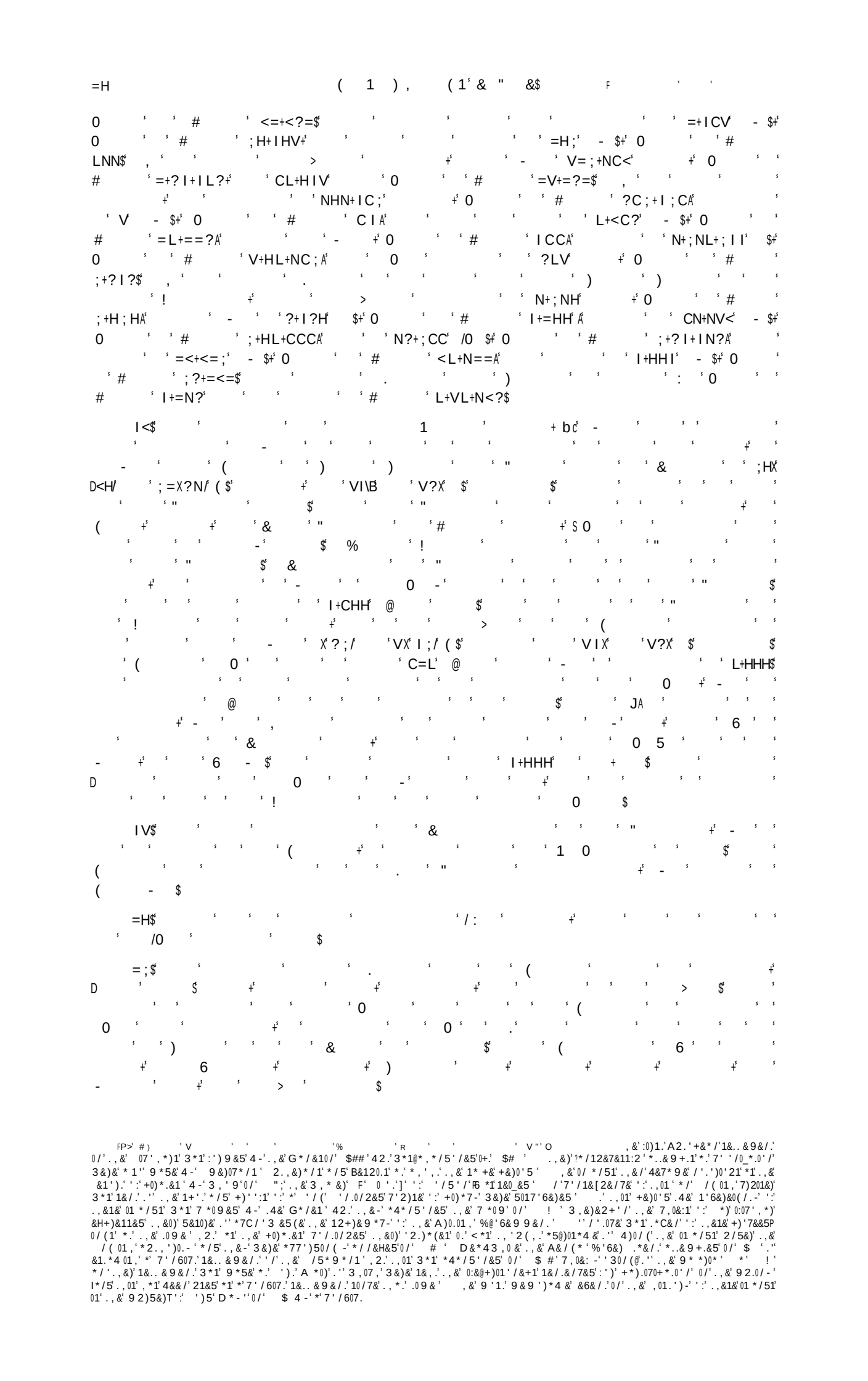


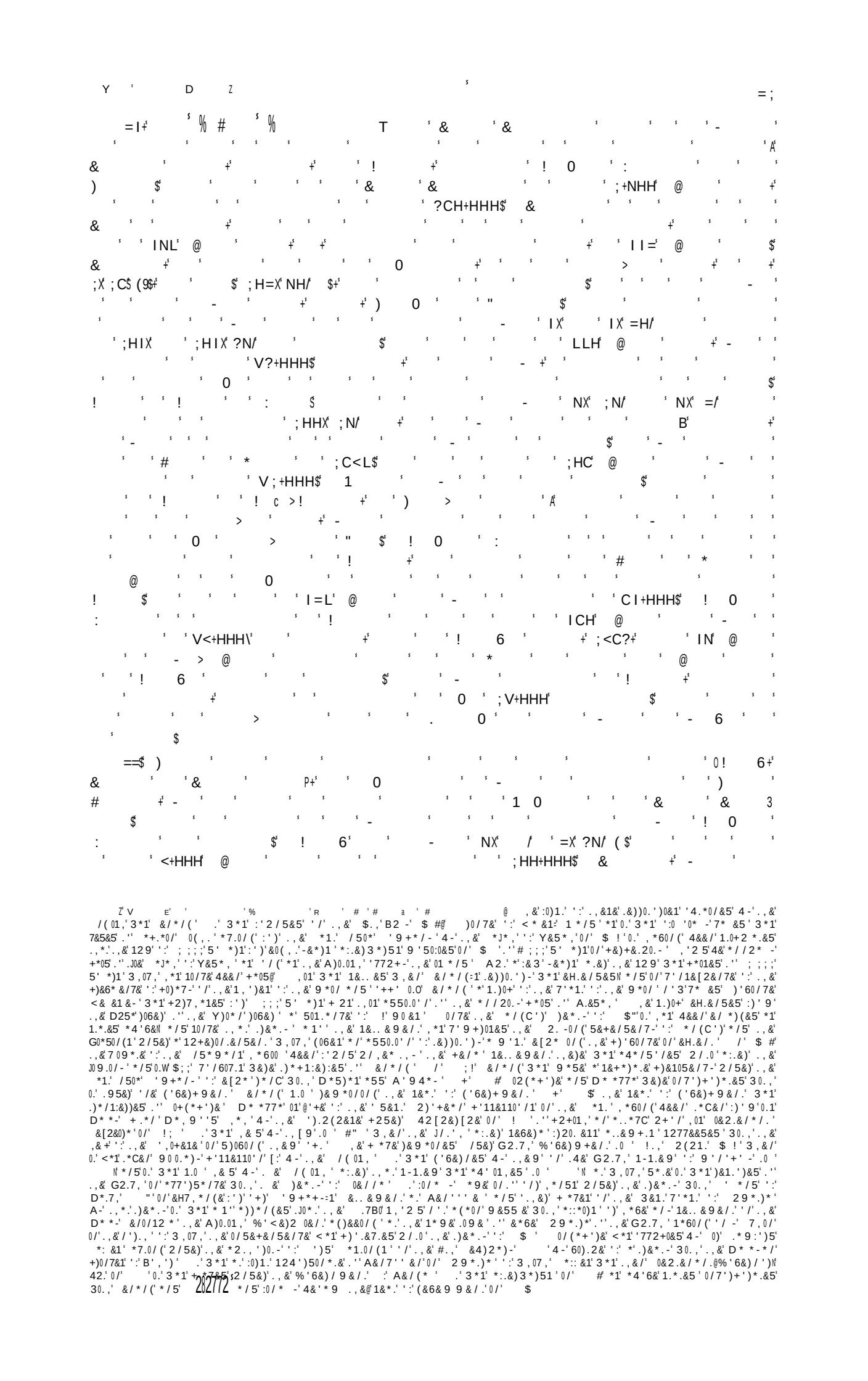


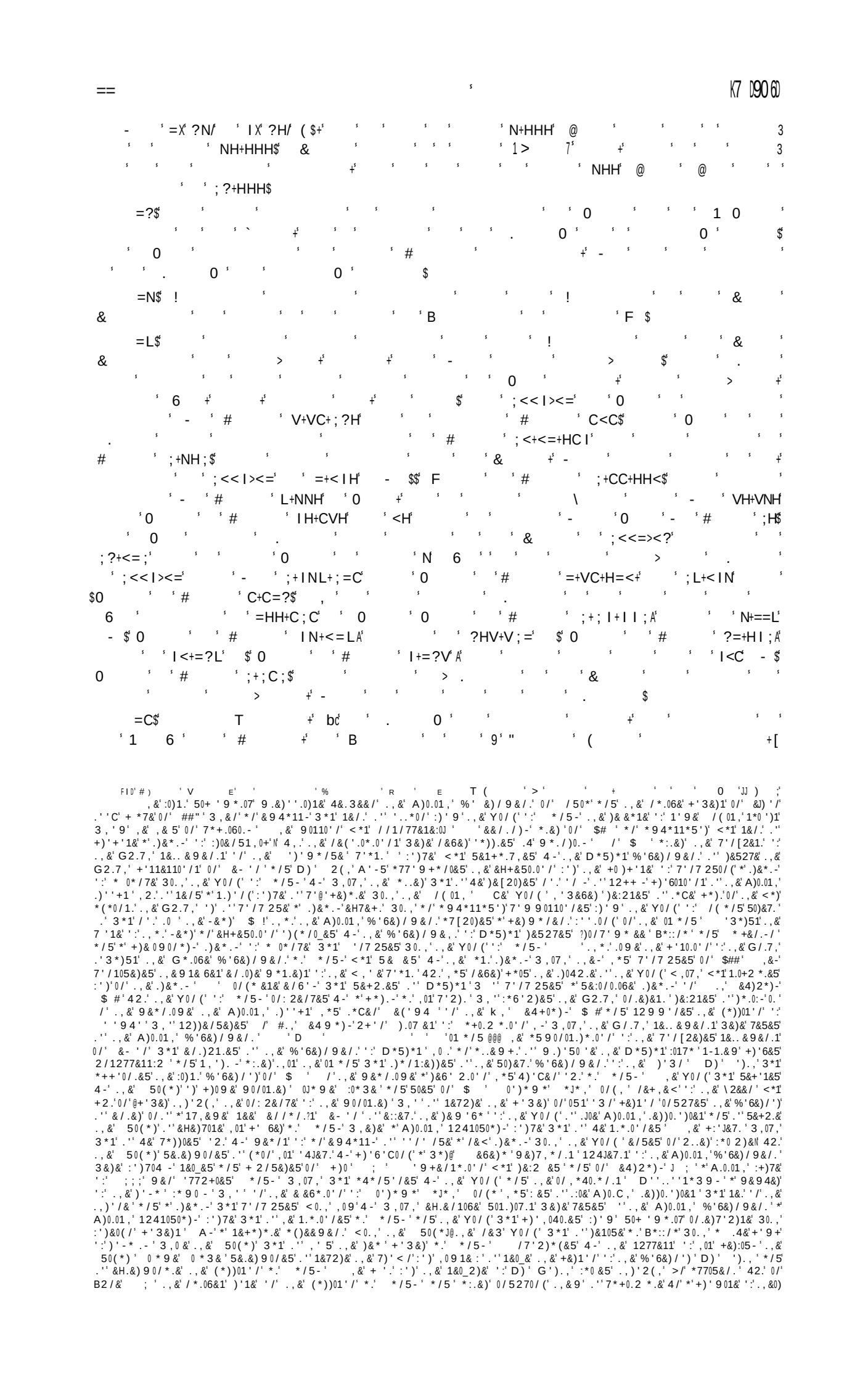


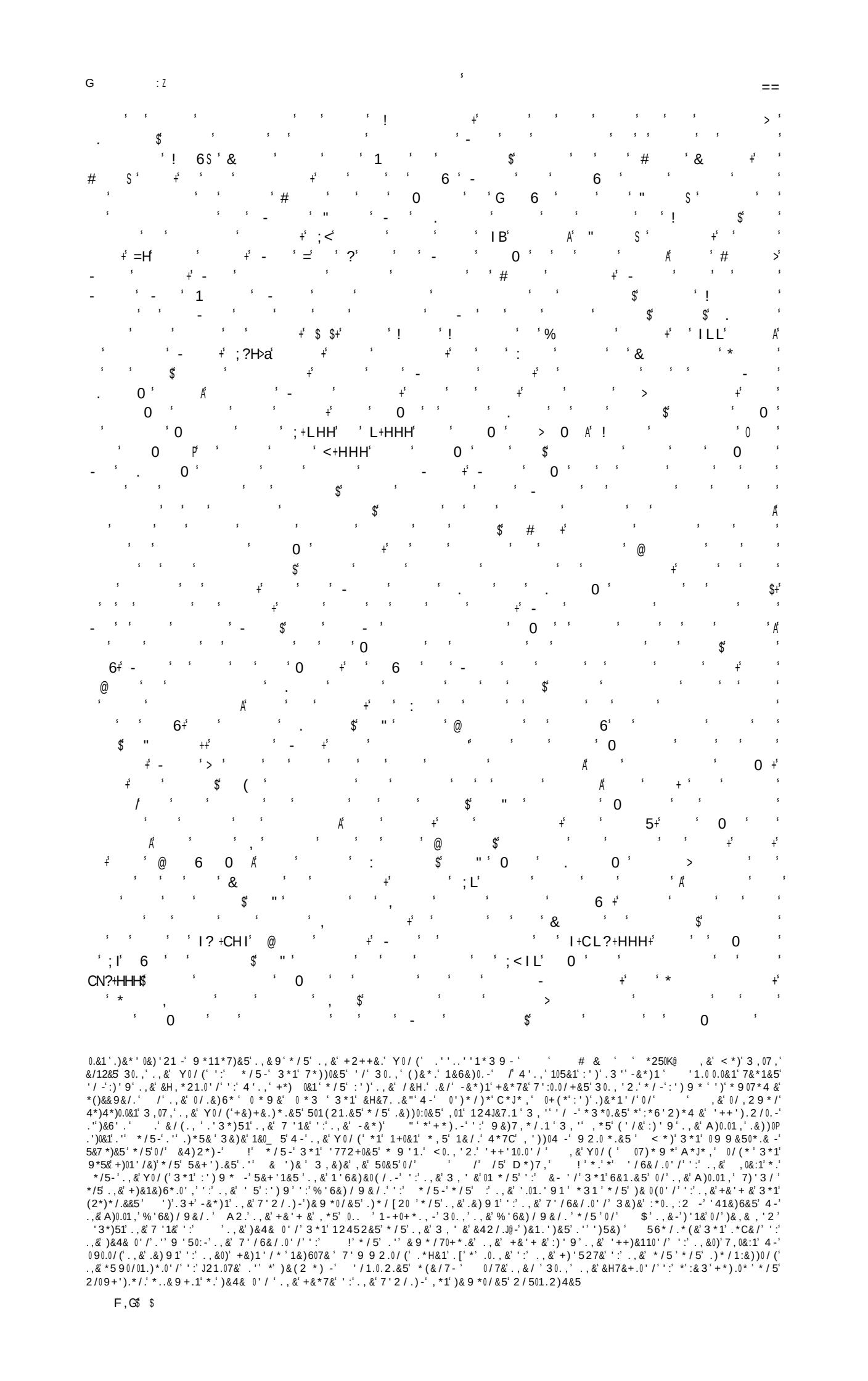


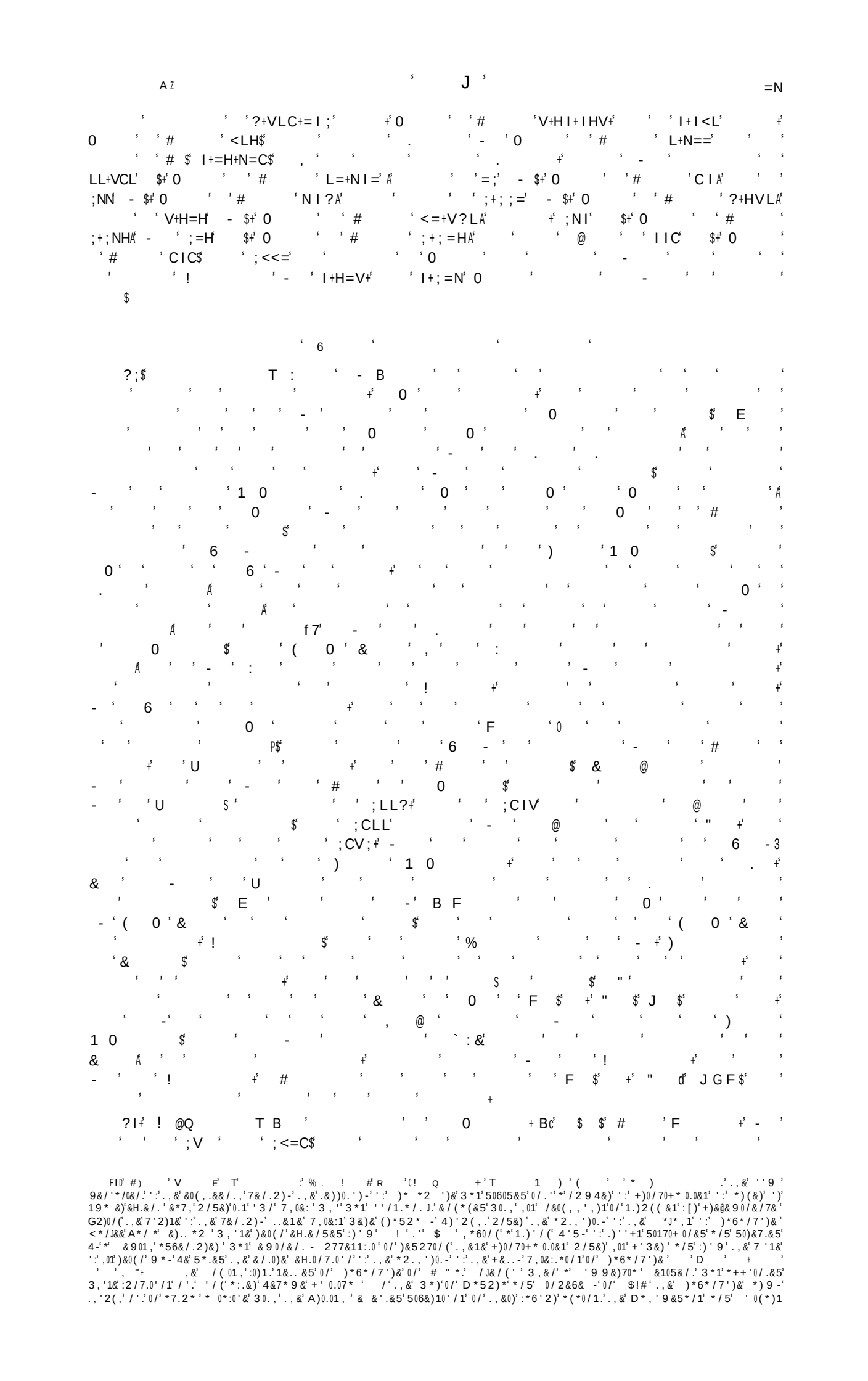


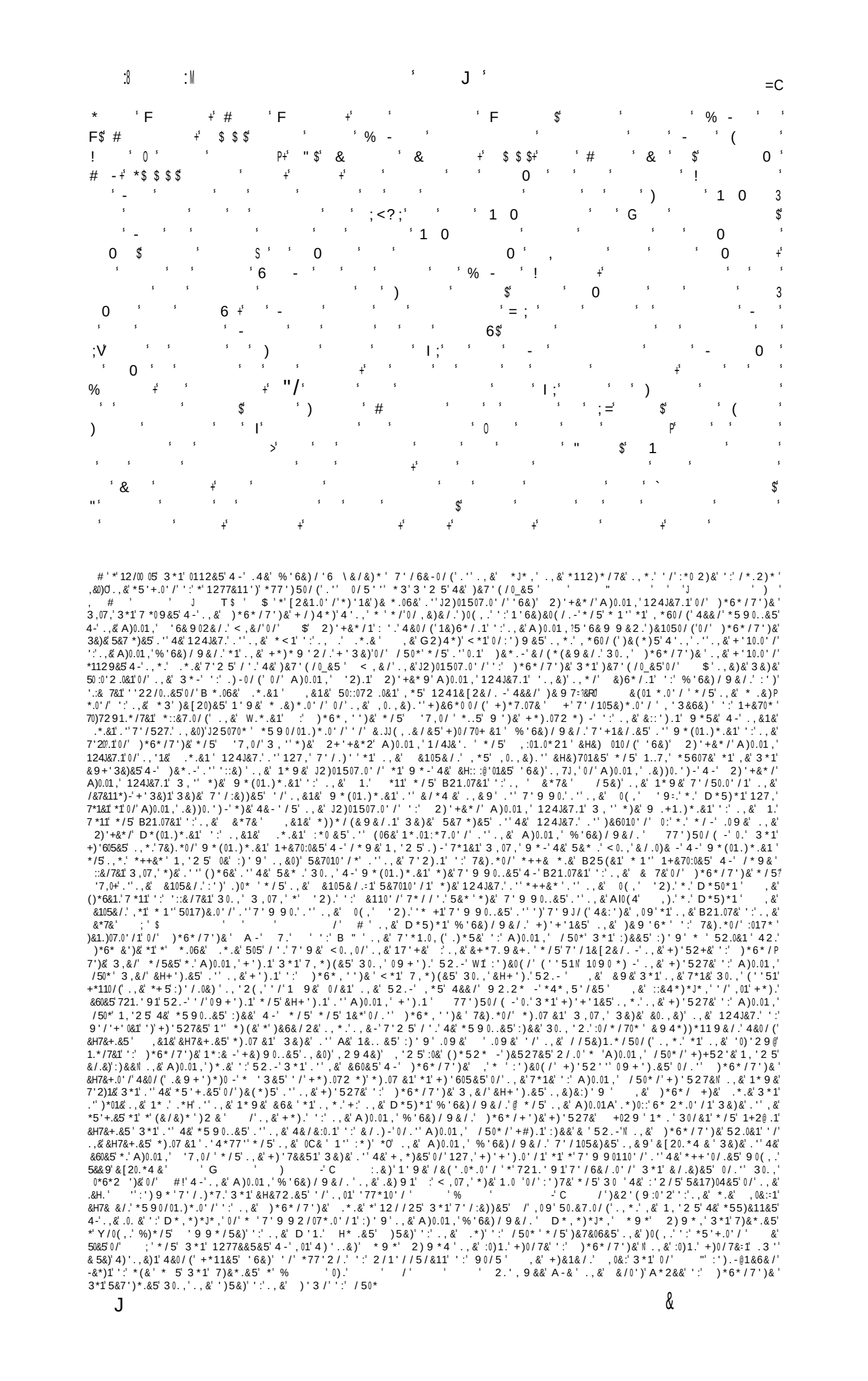












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3,07, 3*1 7 *09&5 4- .,&)*6*/7')& +/)4*)4'., * */0/,&)&/.)0(,. ':1'6&)&0(/.- */5 * 1' *1 ,*60/(4&&/ *590..&5
4- .,& A)0.01, '6&902&/. <,&/0/ $ 2)'+&*/1: '.4&0/(1&)6*/.1 ':.,& A)0.01,?5'6&9 9&2.)&1050/(0/)*6*/7')&
3&)& 5&7 *)&5 .' 4& 124J&7. .' .,& *<1 ':., . .*.& ,& G2)4*) <*1 0/:')9&5 .,*. ,*60/()&(*)5 4'., .' .,& +'10.0'/
': .,& A)0.01, %'6&)/9&/. *1 .,& +*)*9 '2/. +'3&)0/ /50* */5 .'0.1)&*.- &/(*(&9&/. 30.,)*6*/7')& .,& +'10.0'/
*112 9&5 4- ., *. .*.& 7'2 5 /'. 4&)&7'(/0_&5 < ,&/ .,& J2)01507.0'/ ':)*6*/7')& 3*1)&7'(/0_&5 0/ $.,&)& 3&)&
50:0'2 .0&1 0/ .,& 3*- ': .)-0/(0/ A)0.01, '2).1 2)'+&* 9 A)0.01,'124J&7.1 '.,&). ,*/ &)6*/.1 ': %'6&)/9&/. :')
'.:& 7&1 ''22/0..&5 0/ B *.06& .*.&1 ,&1& 50::072 .0&1 ,*5 1241&[2&/. - 4&&/)&9 7:?&R0 &(01 *.0'/ */5 .,& * .&)P
*.0'/ ': .,& *3)&[20)&5 1'9& * .&)*.0'/ 0/ .,& ,0.,&).'+)&6*00/(+)*7.07& +7'/105&)*.0'/ ,'3&6&) ': 1+&70*
70)7291.*/7&1 *::&7.0/(.,& W.*.&1 :)*6*,'')& */5 '7,0/ *..5 9 ')& +*).072 *) - ': .,& &::').1 9*5& 4- .,&1&
.*.&1.'7'/527. .,&0)J25070* *590/01.)*.0'/ '/ &.JJ(,.&/&5+)0/70+&1 %'6&)/9&/. 7'+1&/.&5 .' 9*(01.)*.&1 ': .,&
7'20?.1 0/)*6*/7')& */5 '7,0/ 3, '*)& 2+'+&*2 A)0.01,'1/4J&'. */5 ,:01.0*21 &H&) 010/('6&) 2)'+&*/A)0.01,
124J&7.1 0/., '1& .*.&1 124J&7. .'127, 7'/.)' *1 .,& &105&/. ,*5 ,0.,&).' &H&)701&5 */5 1..7, *5607& *1 ,& 3*1
&9+'3&)&5 4-)&*.-. ' '::&) .,& 1*9& J2)01507.0'/ *1 9*- 4& &H:: :@'01&5 '6&) .,7J,'0/ A)0.01, .&))0.')- 4- 2)'+&*/
A)0.01, 124J&7.1 3, *)& 9*(01.)*.&1 ': .,& 1. *11 */5 B21.07&1 ':., &*7& /5&) .,& 1*9& 7'/50.0'/1 .,&
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7*1&1 *1 0/ A)0.01, .&))0.')- *)& 4&-'/5 .,& J2)01507.0'/ ': 2)'+&*/ A)0.01, 124J&7.1 3, *)& 9 .+1.)*.&1 ': .,& 1.
7*11 */5 B21.07&1 ':., & &*7& ,&1& *))*/(&9&/.1 3&)& 5&7 *)&5 .'4& 124J&7. .')&6010'/ 0:*. */- .09& .,&
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'7,0+ .' .,& &105&/. :')*)0* */5 .,& &105&/.=1 5&7010'/1 *)& 124J&7. .' *++&* .' .,& 0(, '2). *. D*50*1 ,&
()*6&1.7*11 ': '::&/7&1 30., 3,07, * '2). ': &110'/ 7*//'.5&* *)& 7'9 90..&5 .' .,& AI0(4 ,). *. D*5)*1 ,&
&105&/. ,*1 * 1' 5017)&.0'/ .'7'9 90. .' ., & 0(, '2). '* +1 7'9 90..&5 .' ')7'9J/(4&:')& ,09*1 .,& B21.07& ': .,&
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)&1.)07.0'/1 0/)*6*/7')& A- 7. ': B " .,& 7'*1.0,(.)*5& ': A)0.01, /50* 3*1 :)&&5 :)'9 * 52.0&1 42.
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+*110/(.,& *+5:)'/.0&) .,'2(,'/1 9& 0/&1 .,& 52.- ,*5 4&&/ 92.2* - *4*,5'/&5 ,& ::&4*)*J*, '/ ,01 +*).
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1.*/7&1 ':)*6*/7')& 1*:& -+&)90..&5.,&0) ,294&) ,'2 5:0& ()*52* -)&527&5 2/.0* A)0.01, /50*/ +)+52'& 1,'2 5
&/.&):)&&N .,& A)0.01,)*.& ': 52.- 3*1 .' ,& &60&5 4-)*6*/7')& ,* :')&0(/ +)'52'' 09+').&5 0/.')*6*/7')&
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&H7& &/. *590/01.)*.0'/ ': .,&)*6*/7')& .*.& *12//25 3*1 7'/:&))&5 /,09 50.&7.0/(.,*. ,& 1,'2 5 4& *55)&11&5
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* Y/0(,. %)*/5 '99*/5&) ': .,& D'1. H* .&5)5&) ': .,& .*) ': /50* */5)&7&06&5 .,&)0(,. ': *5'+.0'/ &
50&5 0/ ;*/5 3*1 1277&&5&5 4-,01 4)'..&) *9* 2)9*4 .,& :0)1.+)0/7& ':)*6*/7')& N .,& :0)1.+)0/7&=1 .3 '
& 5&) 4)'.,&)1 4&0/(+*11&5 '6&) '/ *77'2/. ': 2/1'//5/&11 ': 90/5 ,& +)&1&/. ,0&: 3*1 0/ " :').-@1&6&/
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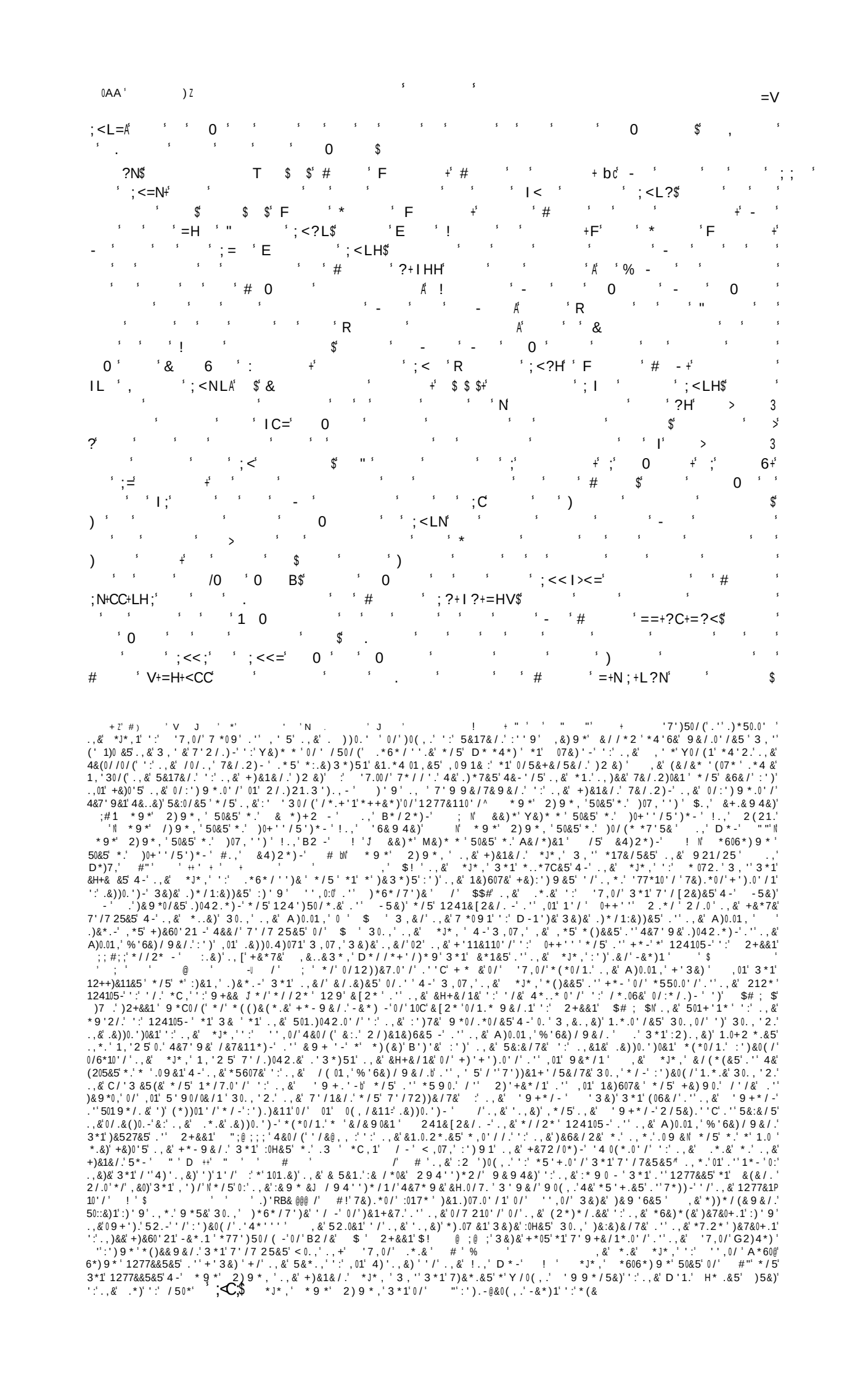
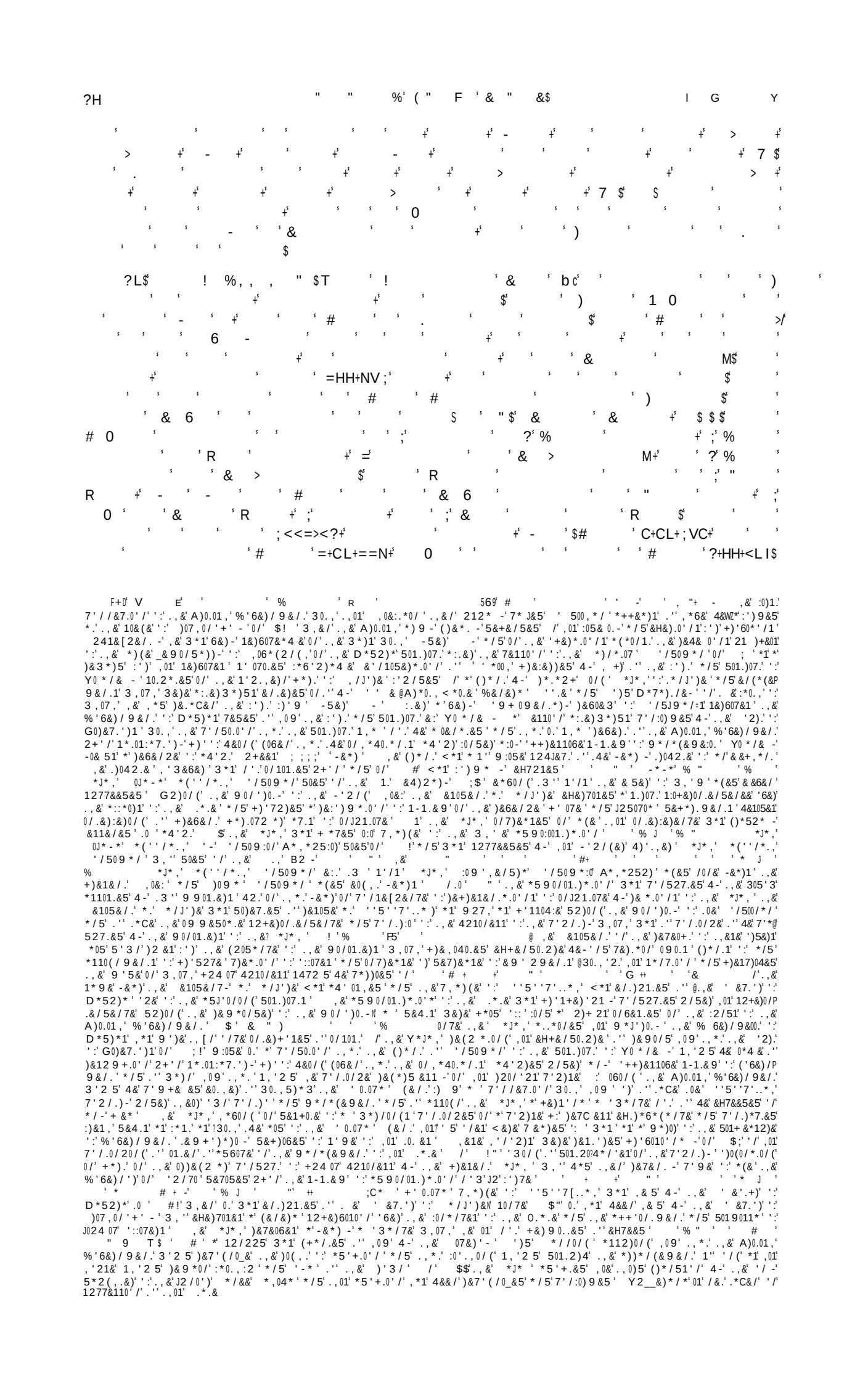
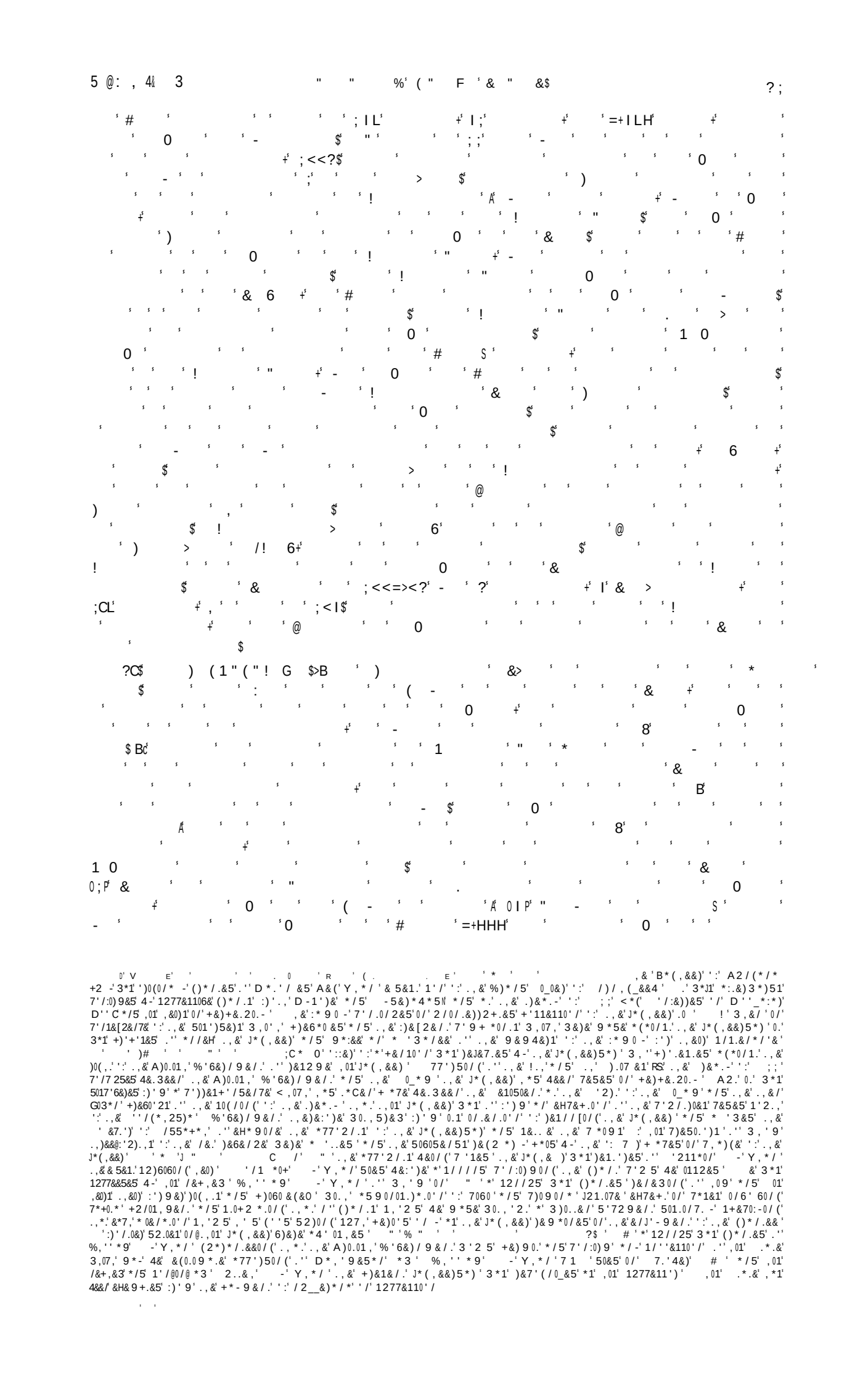
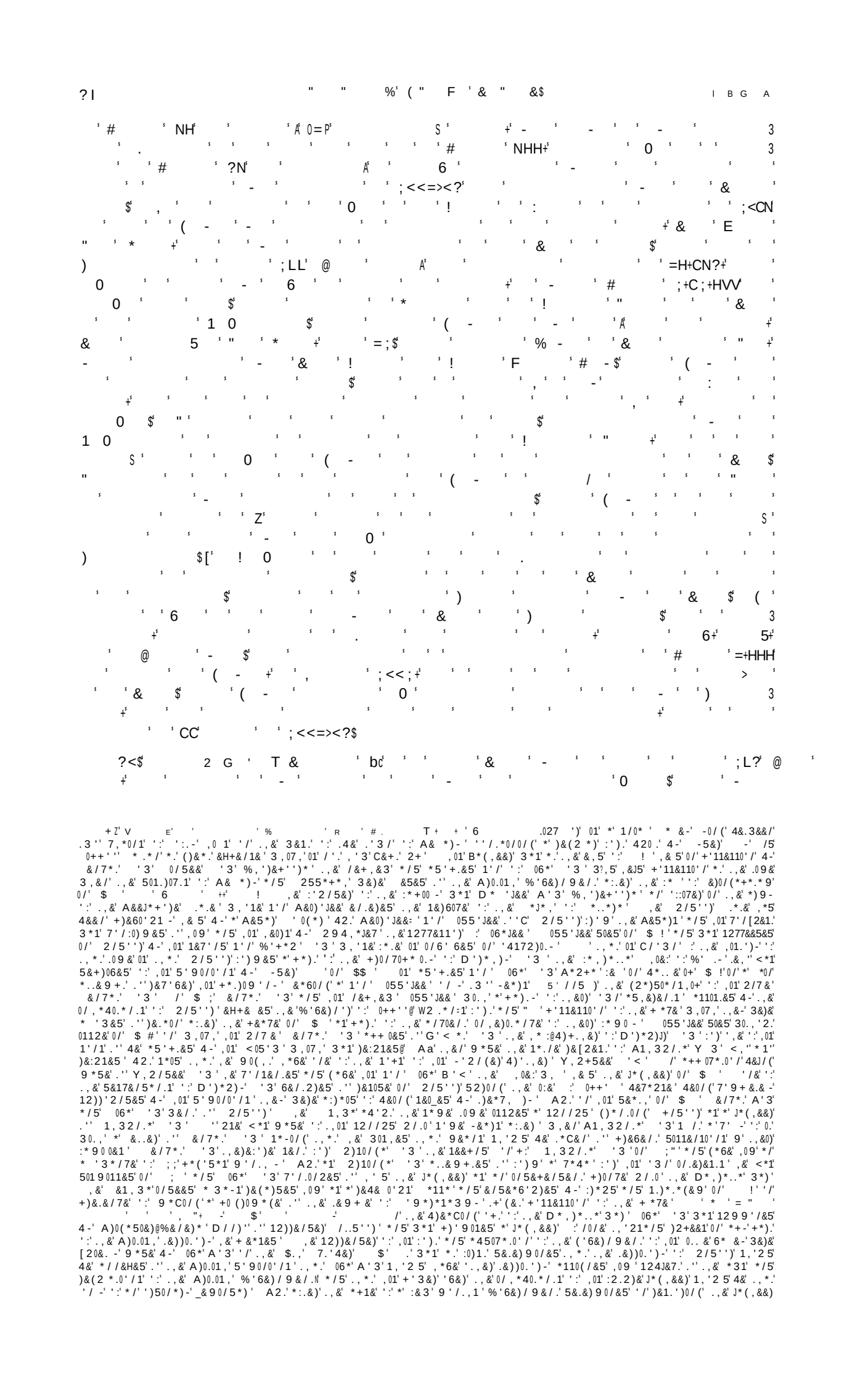
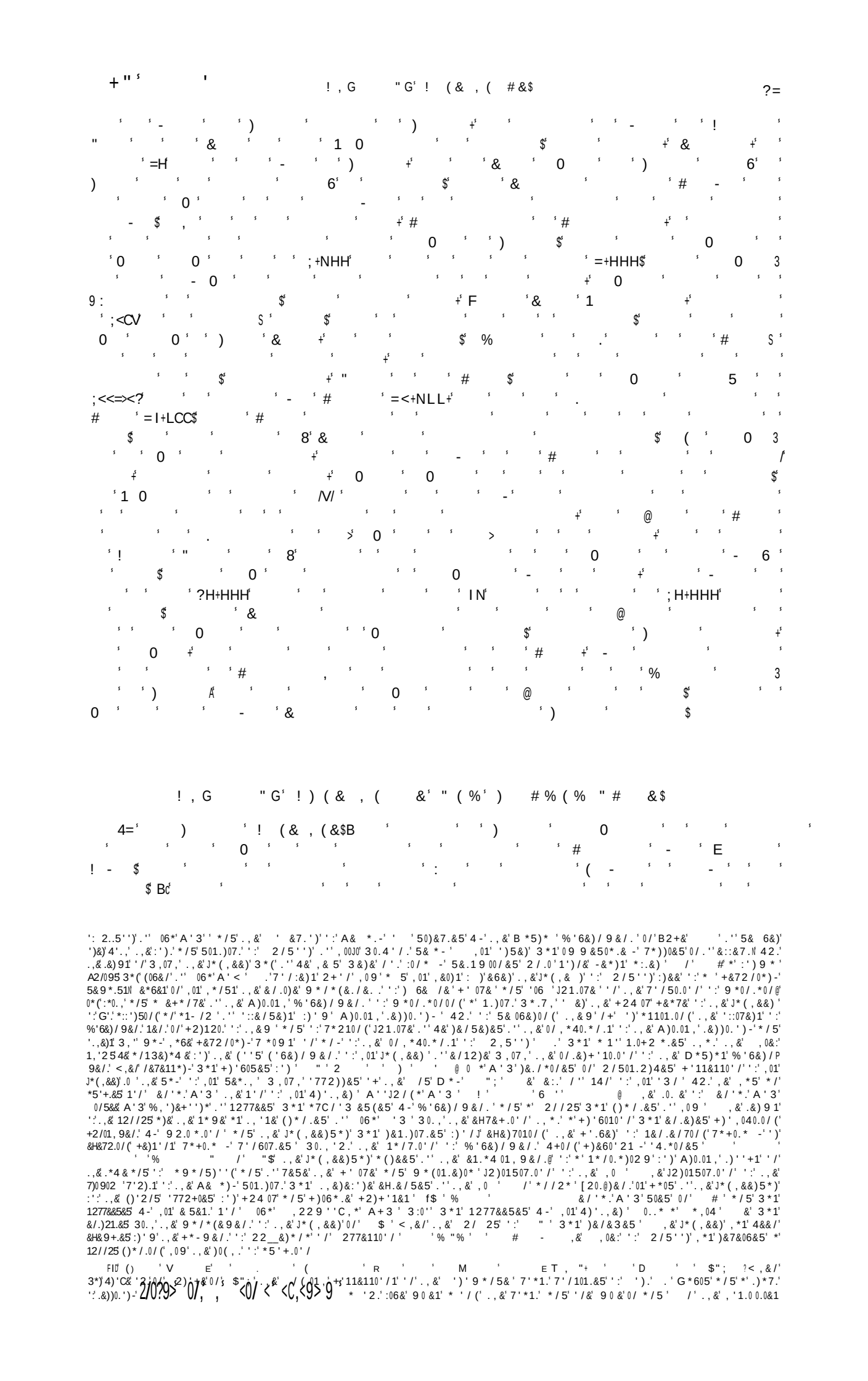
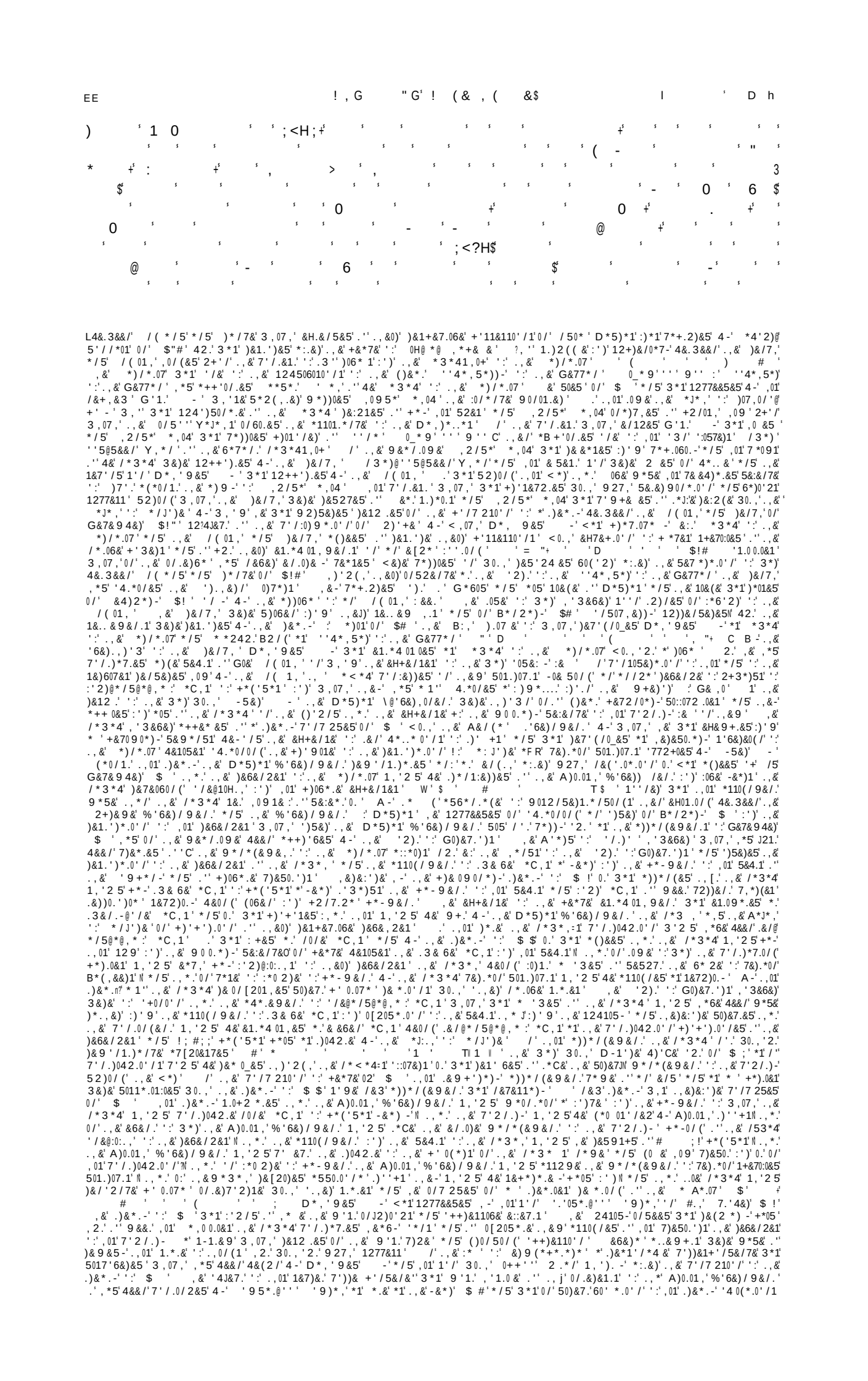


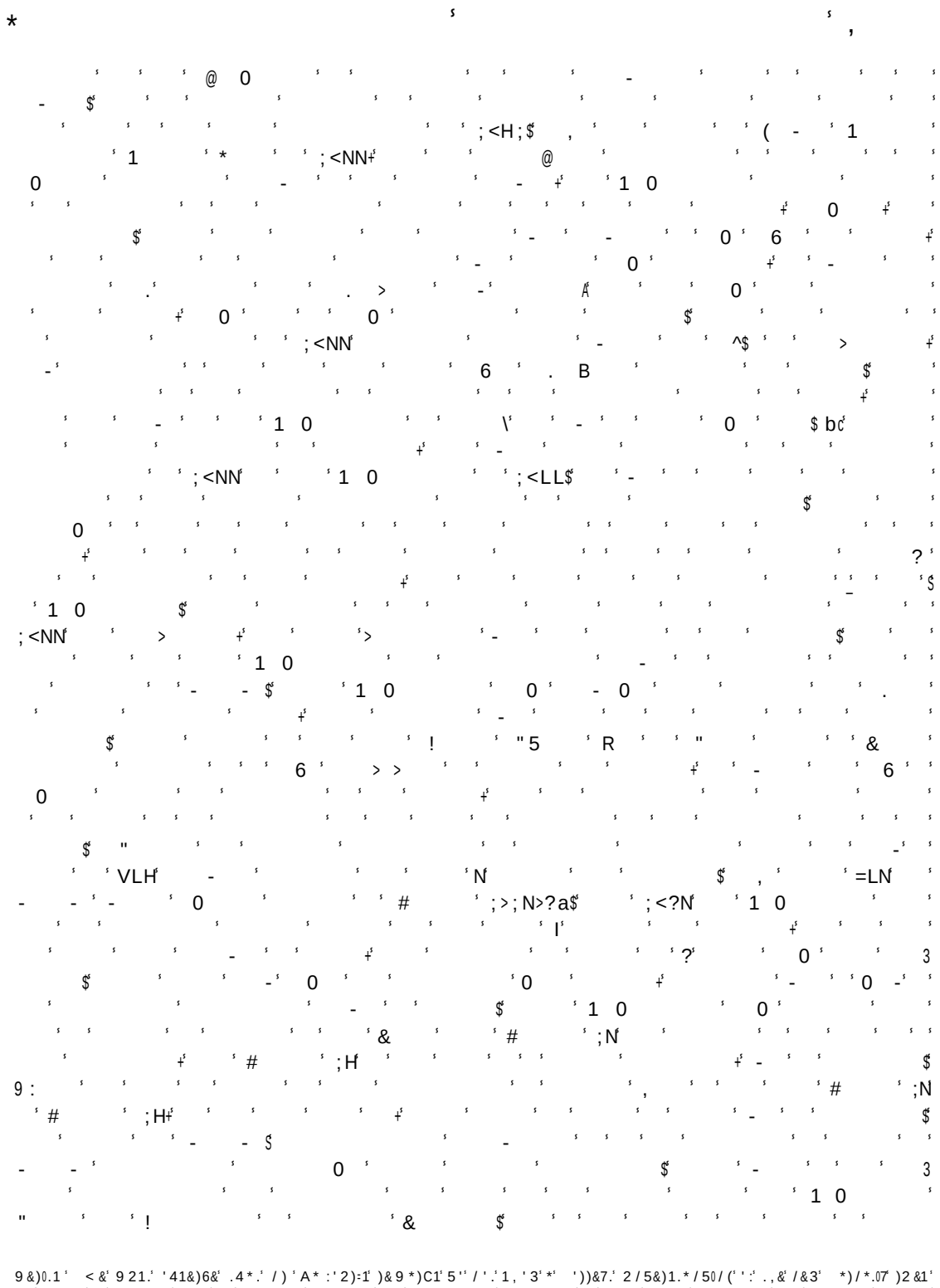


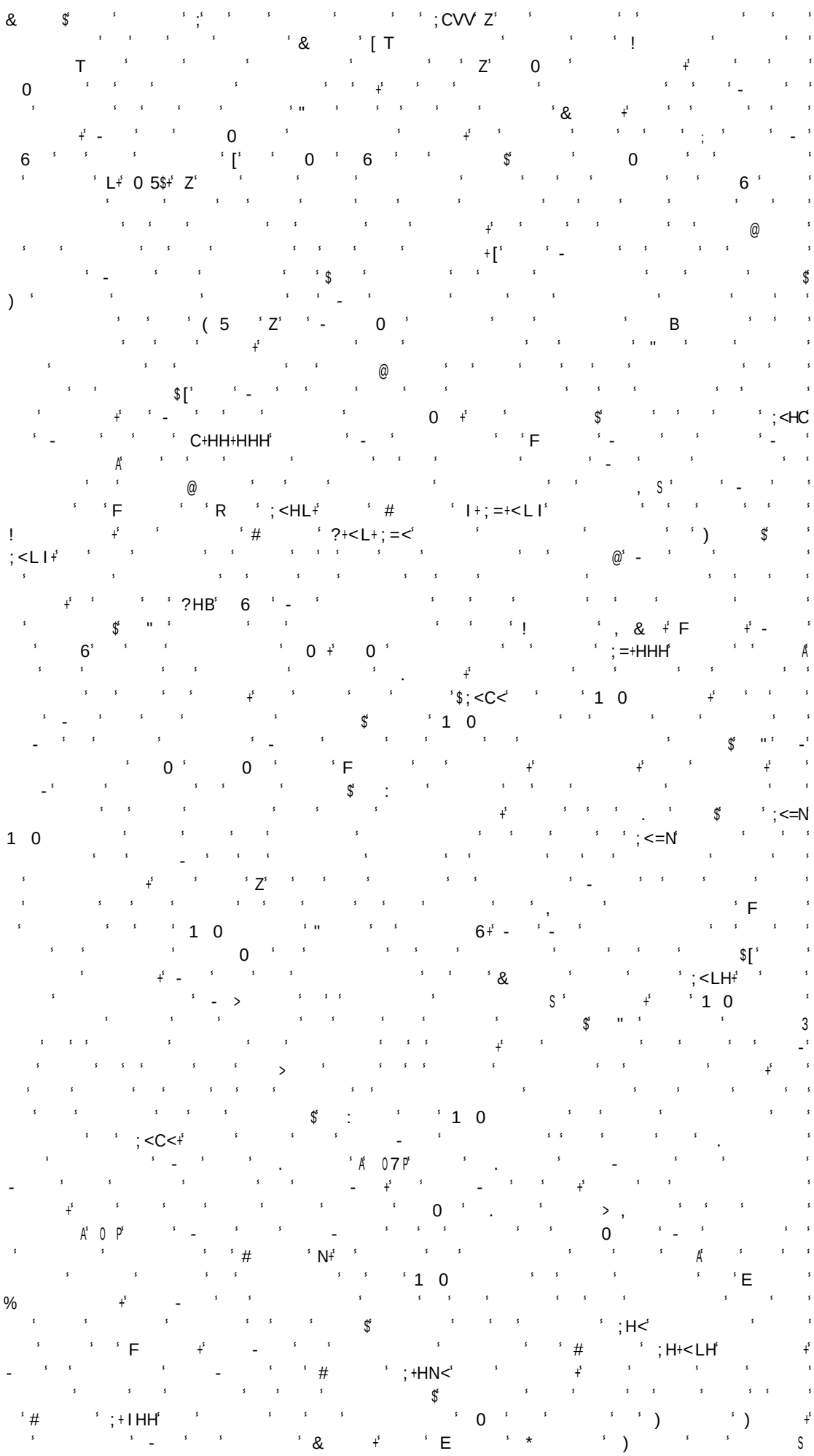


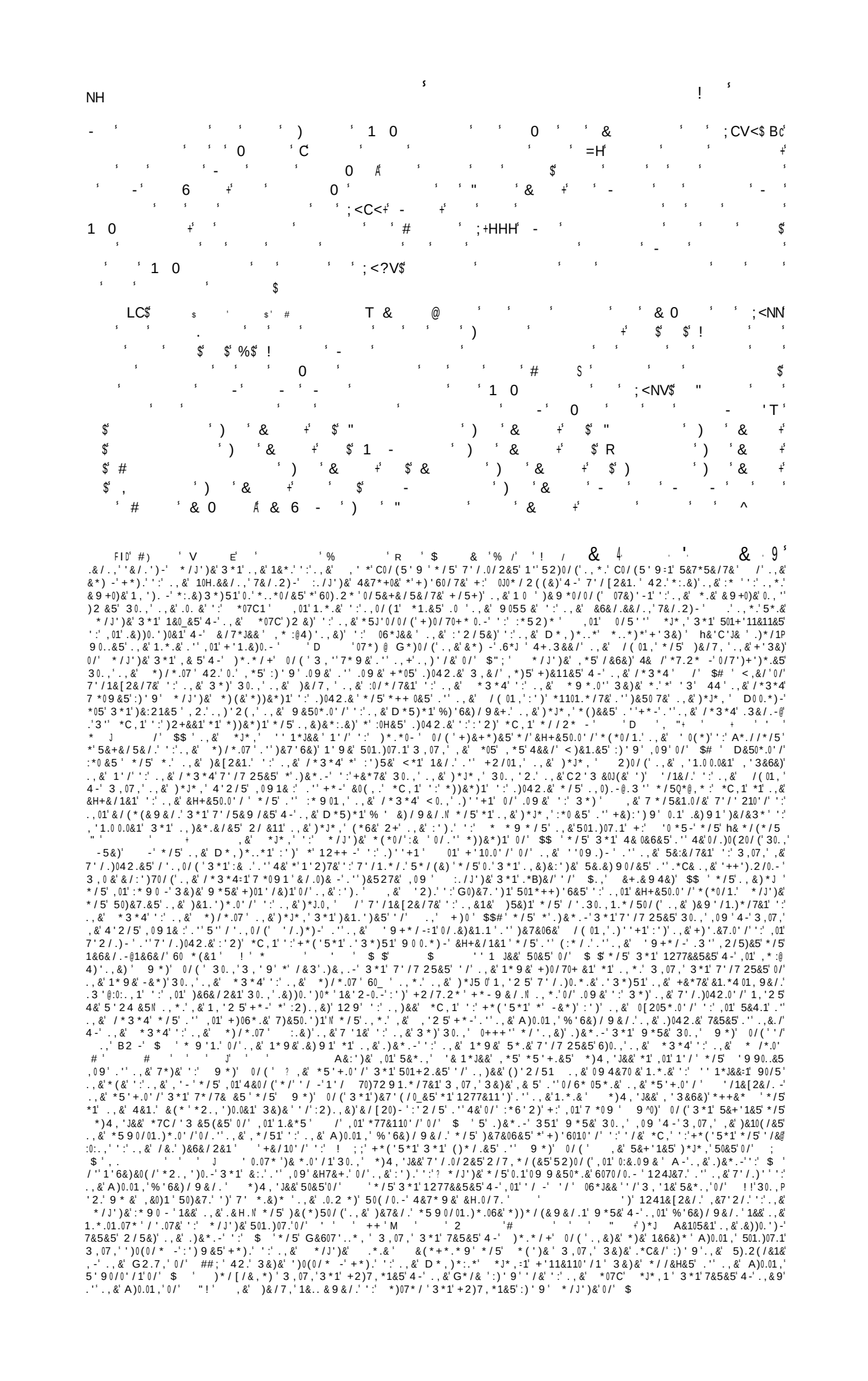


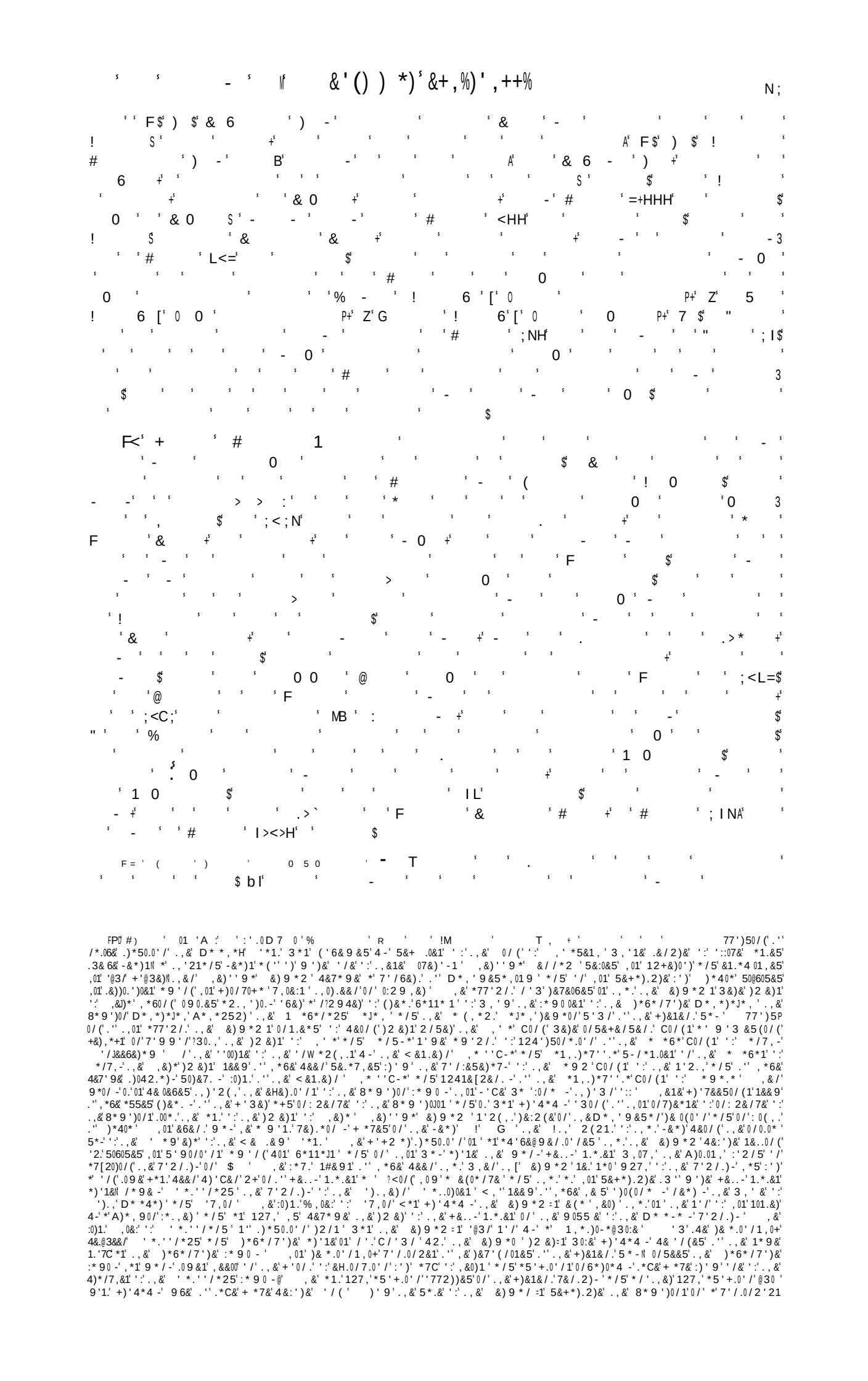


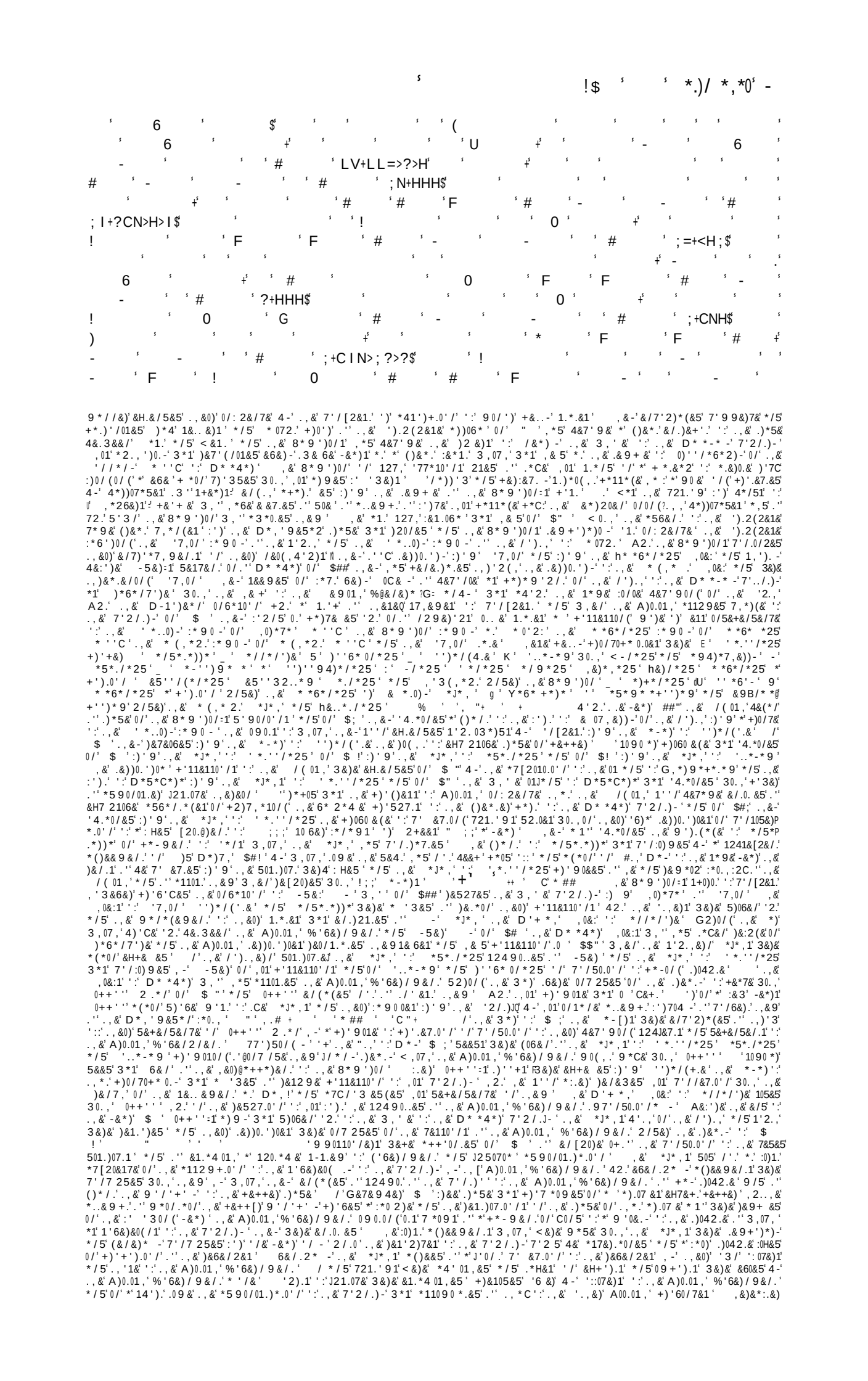


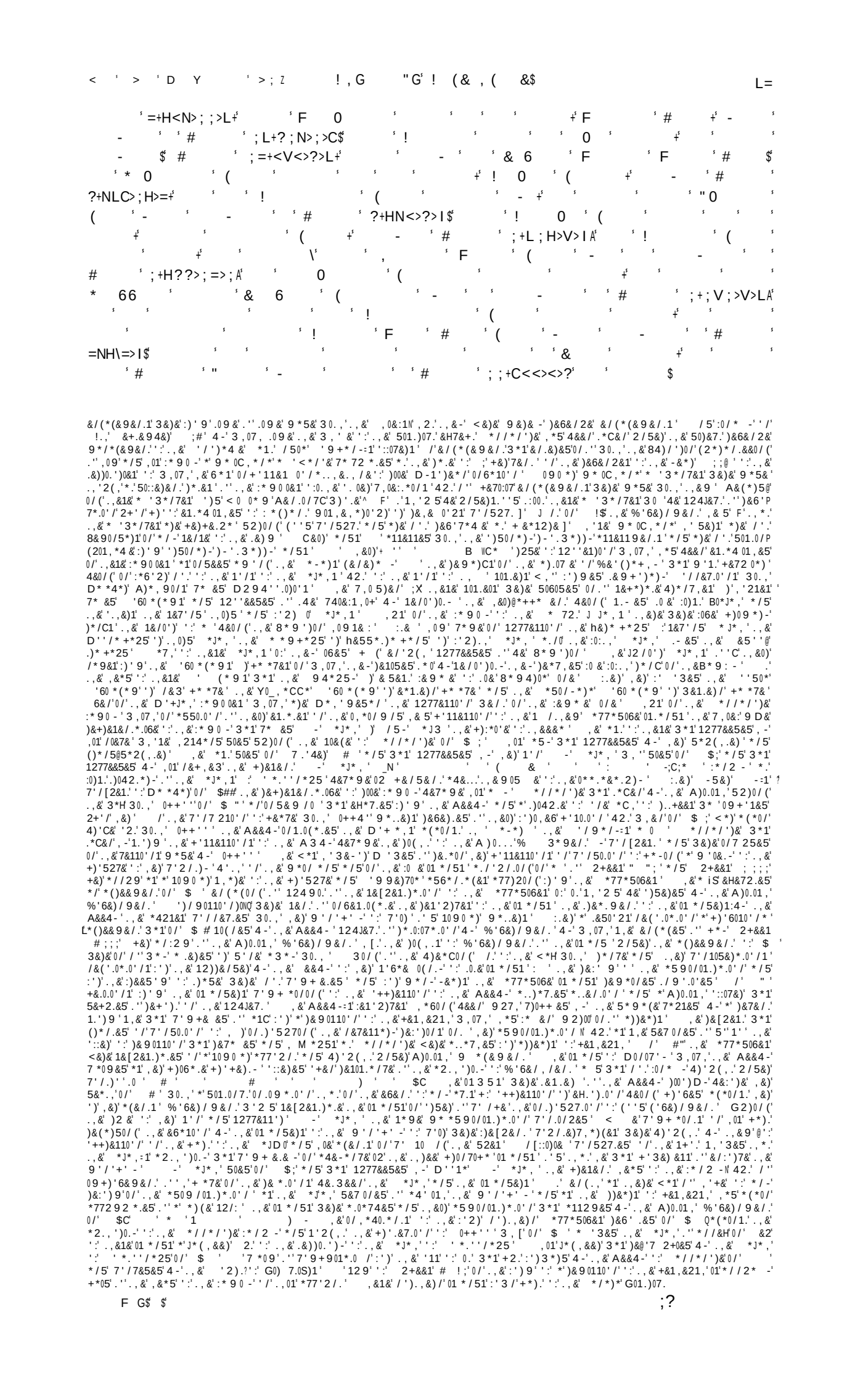


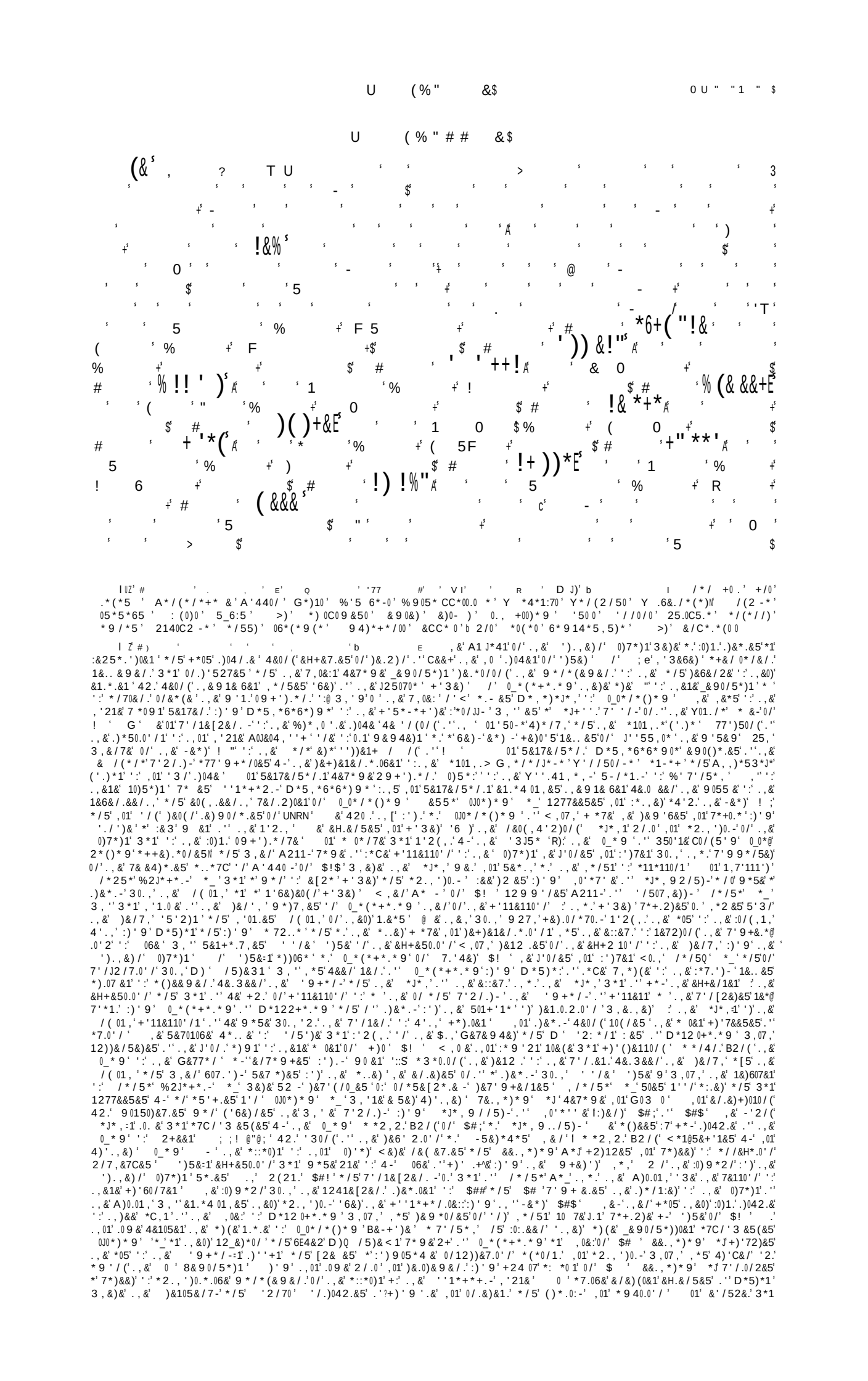


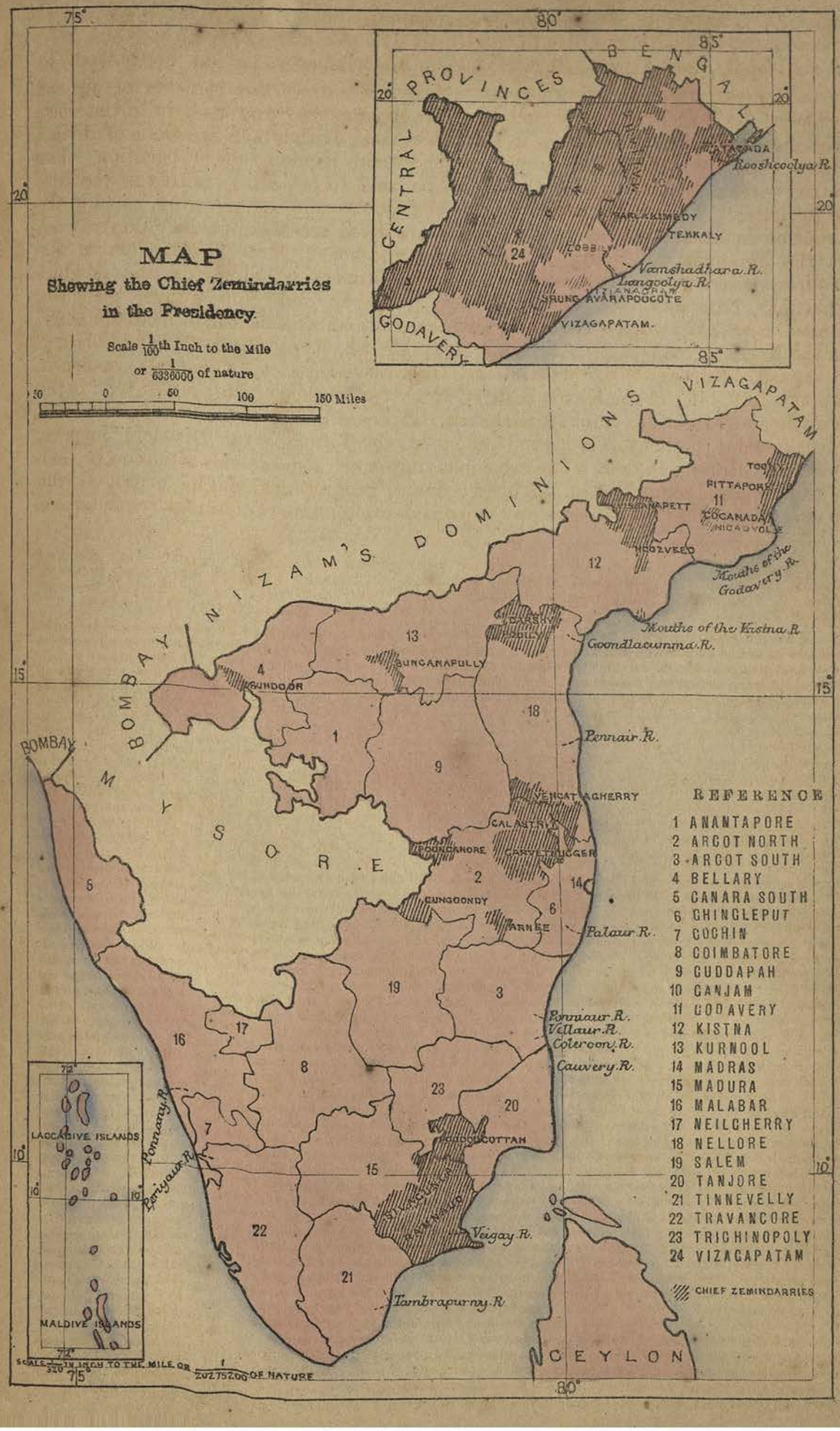










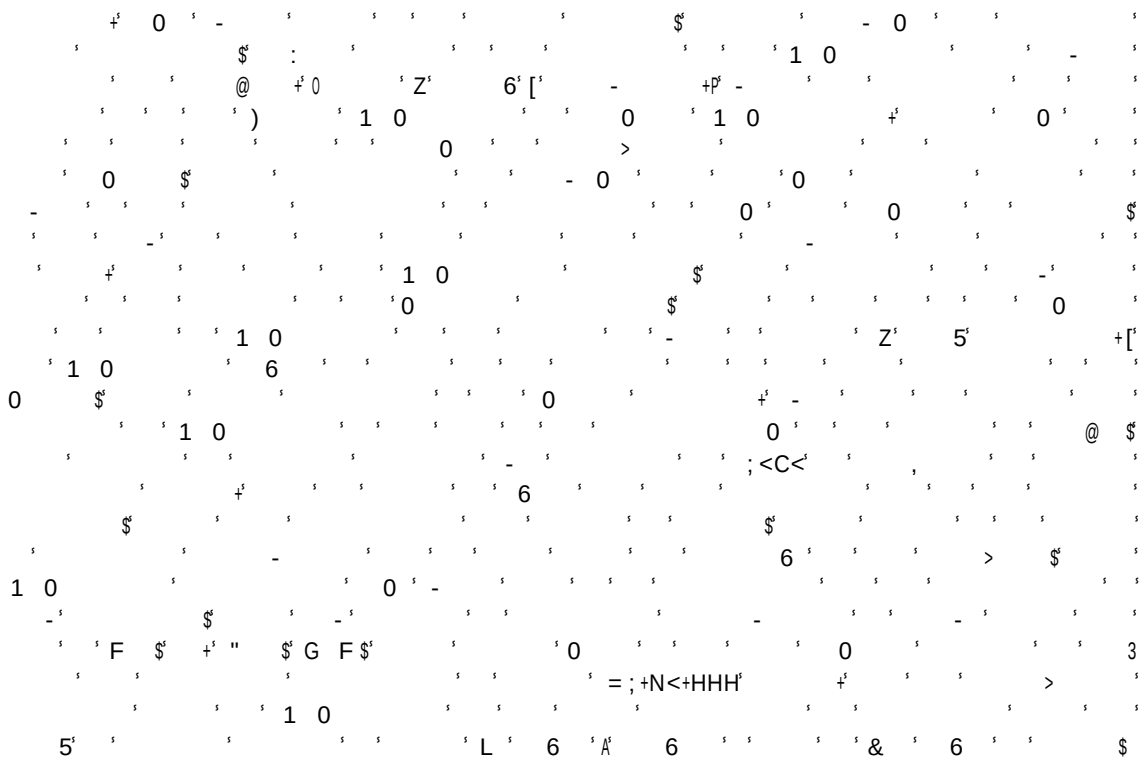

MAP
Shewing the Chief Zemindarries
in the Presidency.
Scale 1/100th Inch to the Mile
or 1/633600 of nature
50 0 50 100 150 Miles
BENGAL
CENTRAL PROVINCES
NIZAM'S DOMINIONS
BOMBAY
MYSORE
VIZAGAPATAM
GODAVERY
Rooshicoolya R.
Vamshadhara R.
Langoolya R.
VIZIANAGRAM
VIZAGAPATAM.
Mouths of the Godavery R.
Mouths of the Kistna R.
Goondlacumma R.
Pennair R.
Palaur R.
Ponniaur R.
Villaur R.
Coleroon R.
Cauvery R.
Veigay R.
Tambrapurny R.
Ponnany R.
Periyaur R.
CEYLON
LACCADIVE ISLANDS
MALDIVE ISLANDS
REFERENCE
1 ANANTAPORE
2 ARCOT NORTH
3 ARCOT SOUTH
4 BELLARY
5 CANARA SOUTH
6 GHINGLEPUT
7 COCHIN
8 COIMBATORE
9 CUDDAPAH
10 GANJAM
11 GODAVERY
12 KISTNA
13 KURNOOL
14 MADRAS
15 MADURA
16 MALABAR
17 NEILGHERRY
18 NELLORE
19 SALEM
20 TANJORE
21 TINNEVELLY
22 TRAVANCORE
23 TRICHINOPOLY
24 VIZAGAPATAM
CHIEF ZEMINDARRIES
SCALE 1/320 INCH TO THE MILE OR 1/202752.00 OF NATURE

1 0 ' '5 +' ' ' ' - ' ' ' 0 +' ' ' ' ' '1 0 ' ' ' 5 ' . ' $' ' ' ' ' ' ' -+' - ' 1 0 ' ' ' ' ' $' :

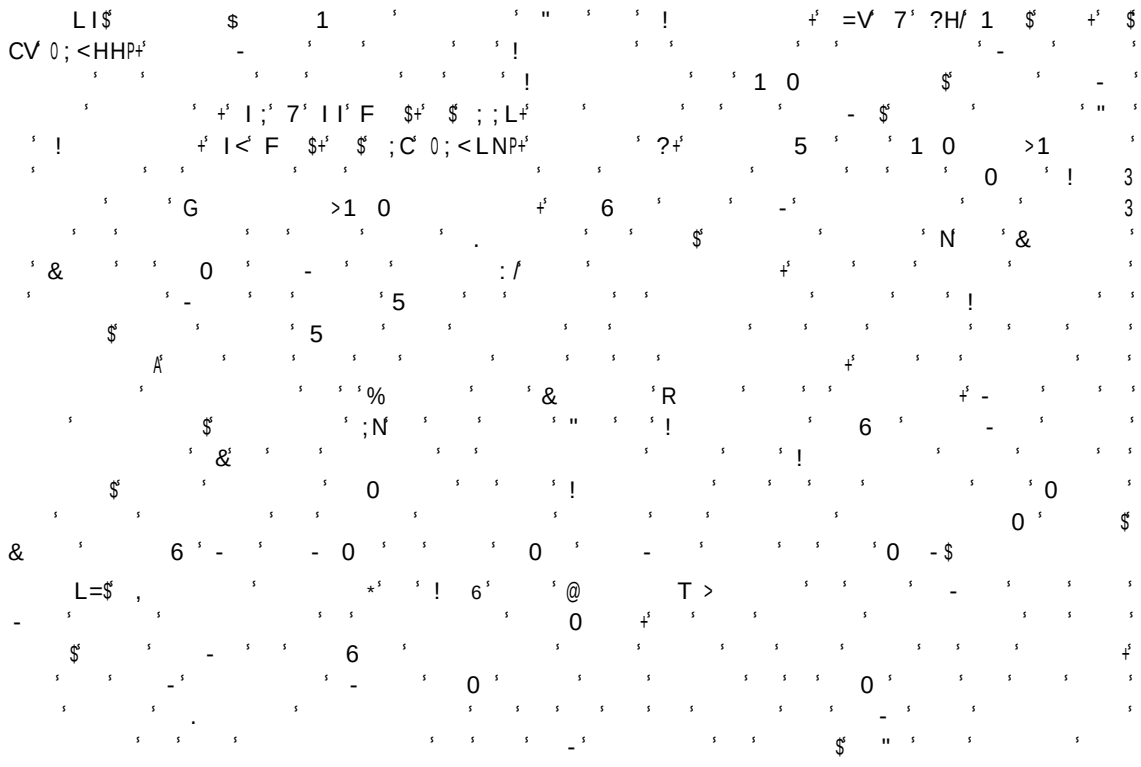
D*,'9&5*/*'*/5' "' ,)01.0*/*' ')?+24 07'+2)+'1&1'0.'01'50605&5'0/.'' .,&' * *1.)-'*/5'D*5&)+*2C'506010'/1'&*7,'0/'7,*)(&' ':'*'124@9*(01.)*.&N' .,&'8&90/5*)' 50605&1' .,&'&1.*.&' :')')&6&/2&'+2)+'1&1'0/.'' .,&'.*''C1' ':' * *1.)-'*/5' '/7,0/*25' ,&'_&90/5*))-'7'/101.1'':'! '60 *(&1'30.,' ";!',' 21&1' .1')06&)1'*)&'.,&' &90*9*9''C,-'.,&' */)' */5'.,&' 9*2255-'')' *))*0/*6*)*9')06&)'? ,&' 3*9*9''C,-'3,&/'0/':''5'01'*'4)'*5'*/5'5&&+'1.)&*9'42.'01'0..&' 2.00_&5':')'0))0(*.0'/' ,&'8&90/5*)')&7&06&1'.,&')&/.'0/' 40/5' .'6*)0&1':)'9'60 *(&'.'' 60 *(&'42.',*:'.,&' +)'527&'01'.,&'(&/&)*')*.&' A&105&1'09&'*/5'4220 50/(' 1.''/&'.,&'&1.*.&',*1'*'1'5*'1'0':)'9'3,07,')25&'')/*9&/.1'':'(*11'*)&'9*/2:*7.2)&5' ,&' '/-'+*7&':'09+':.*/+&'01' **1.)-'3,&)&'.,&'8&90/5*)')&105&1'*'.'3/'30.,' !'0/,*40.*/.1

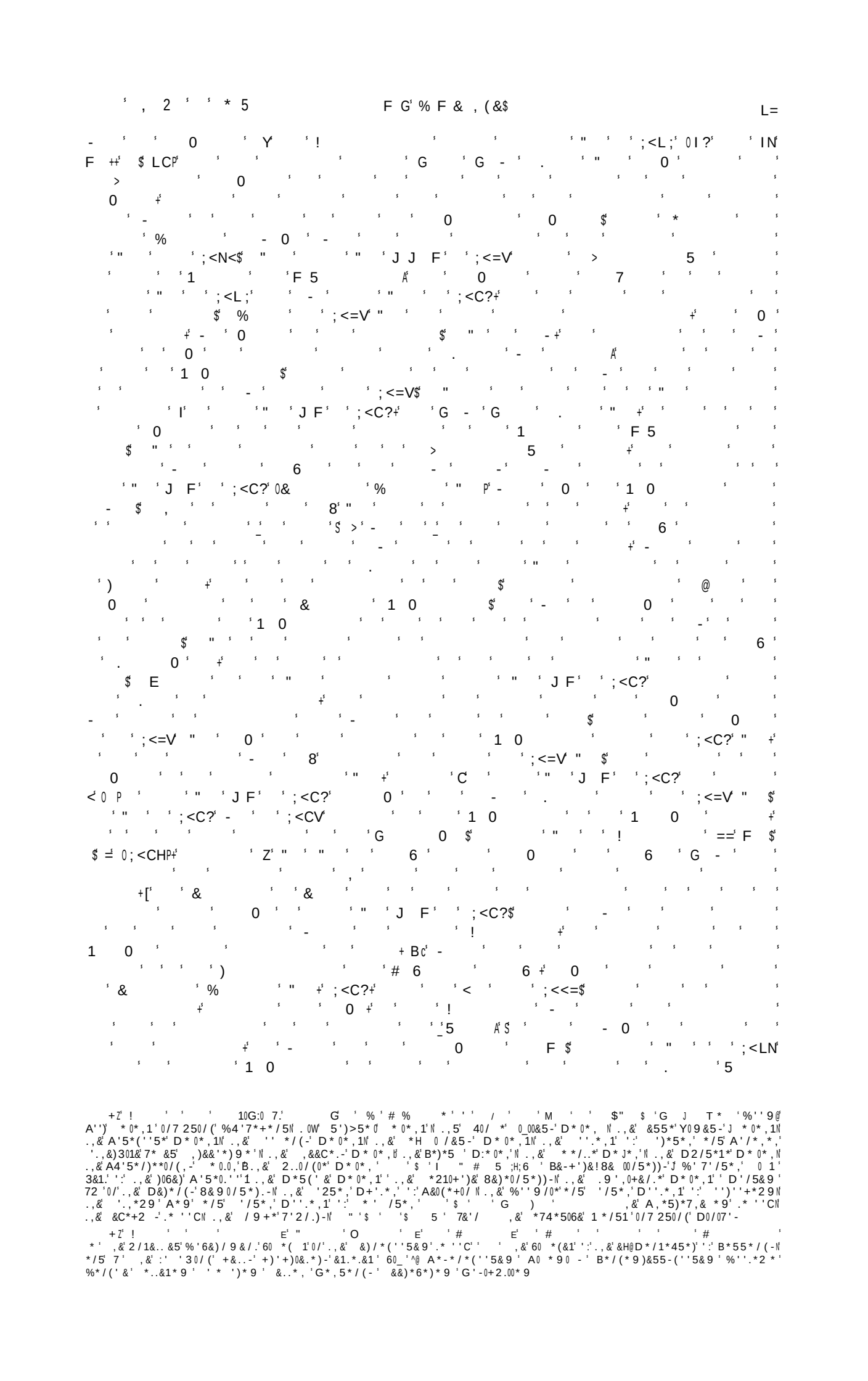
FID' #) ' . ' ' &/O "Q 'b ")Q @ ,01'01'*/'&1.*.&'7)&*.&5''2.'':'.,&'*/70&/.'_&90/5*))-'':' ''_6&&5'0/'.,&'Y01.+*'501.)07.' ,&'&/.0)&'_&90/5*))-'<*1',&5'0/' $$'4-''/&' *)109,*' ++*,' '3' &'3*1' +)'7*09&5'*')&4& '*/5'3*1')&9'6&5':)'9'.,&'_&90/5*))-'0/' $ "'*/5',01'&5&1.'1'/' &/7*.*' *)109,*' ++*,' '3' 3*1')&7'(/0_&5'*1'_&90/5*)'0/',01'*H'9*/*(&9&/.',&'_&90/5*))-' 12::&)&5':0/*/70*-'*/5'0/' $ ' 3*1')&129&5'4-'%'6&9 95,.':')'*))&*)1':')&6&/2&' /' ;'.,&'_&90/5*))-'3*1')&1.')&5' /5' '60).2&':'*/'*()&&9&/.'&/.&)&5'0/.''4-' &/7*.*' *)109,*' ++*,' '3'30.,'01'1.&+@4)'.,&)' *97,&/5)*' ++*,' '3''*/5'0/'.,&'0/.&)&1.1':'.,&'+&*7&':'.,&'_&90/5*))-'.3''&1.*.&1'3&)&'.,&/'7)&*.&5':'/.':'0.N*/5'1///51'3&)&'0112&5'.''.,&'&5&1.'4)'.,&)' &/7*.*' *)109,*' ++*,' '3':')'.,&' 05*56'&'&1.*.&'*/5'.'' *97,&/5)*':')'.,&')&9*0/0/(*')).0!'/':'.,&' ''_6&&5'&1.*.&' *)109,*' ++*,' '3'3*1'1/'''&5&502' $'4-',01'*5'+.&5'1'/' *)*-*' ++*,' '3'3,''3*1'.,&/'*'90/')'*/5'.,&'&1.*.&'3*1'.,&)&:')&'.*C&/'6/5&)'.,&'9*/*(&9&/.':'.,&' '2).'':'<*)51'4&0/(''*(*0/'9*5&'6&)'0/' !' '/'.,&'_&90/5*)'*..*0/0/(',01'9*J')0.-' /'&'/&[/'&':'.,&',&*6-'5&4.1'0/72))&5'4-',01':*.,&)'*/5''30/(''.'' 4*5'-&*)1' *)*-*' @ +*,' '3':*-&5'.'' +*-'.,&'%'6&)/9&/.'+&1,'21,')&(2*)-*'.*7,&5'*/5' 4*)'2(,'.''1*&'0/' " '3,&/'%'6&)/9&/.'0/.&):&)&5':')' &')& 0&:'':'.,&':*90-'4'2(,'.,&'&1.*.&':')' 2+&&1' ;;;;;*/59*C0/('6&)'*'+')'.0'/'':' .''.,&' ''_6&&5'8&90/5*)'0/'1*.01:*7.0'/':',01'7*091'=790..&5'.,&'*))&*)1':'+&1,'21,'7'9+)'901&5'.,&)'0*400.0&1''*/5')&1.')&5'.,&'.,)&&'+&)(///*,1':'05*56'&'A,*)_/-''*/5'94*)*+&..'.''*)*-*' ++ ,' '3'<0.,'*'':)&1,'12.9/5'.'' +*-'.,&'%'6&)/9&/.'+&1,'21,')&(2*)-*'.*7,&5'*/5'.,&'&1.*.&'*/5'.,&'&1.*.&'*/5'.,&'A,1)_2-'<&)&'*([0/'1+5'*/5'4'2(,'.'4-'%'6&)/9&/.':')' 2+&&1' ;;;;'42.'30/(''.''*'7&).*0/'0&(*0.-'0/'.,&'+)'7&52)&'.,&'1*&'3*1'1&.'*105&'*/5'.,&'+&)(2/+*,1'3&)&')&1.')&5'.''.,&'_&90/5*)'0/' ! ' *)*-*' ++*,' '3'50&5'0/' #"' &*60/('.3''305'31''':'3,'9'.,&' 2)606')' */&&' *+*99*'/'3',' 51'.,&'&1.*.&' ,&'.,)&&'+&)(///*,1'7'9+)01&'*/'*)&*'':' '1[2*)&'90&1'*/5'7'/.*0/'*'+'+2*.0'/':' ; ;'1'21' ,&'+&1,721,'+*-*4&'.''%'6&)/@'@9&/.'01' 2+&&1' # @$

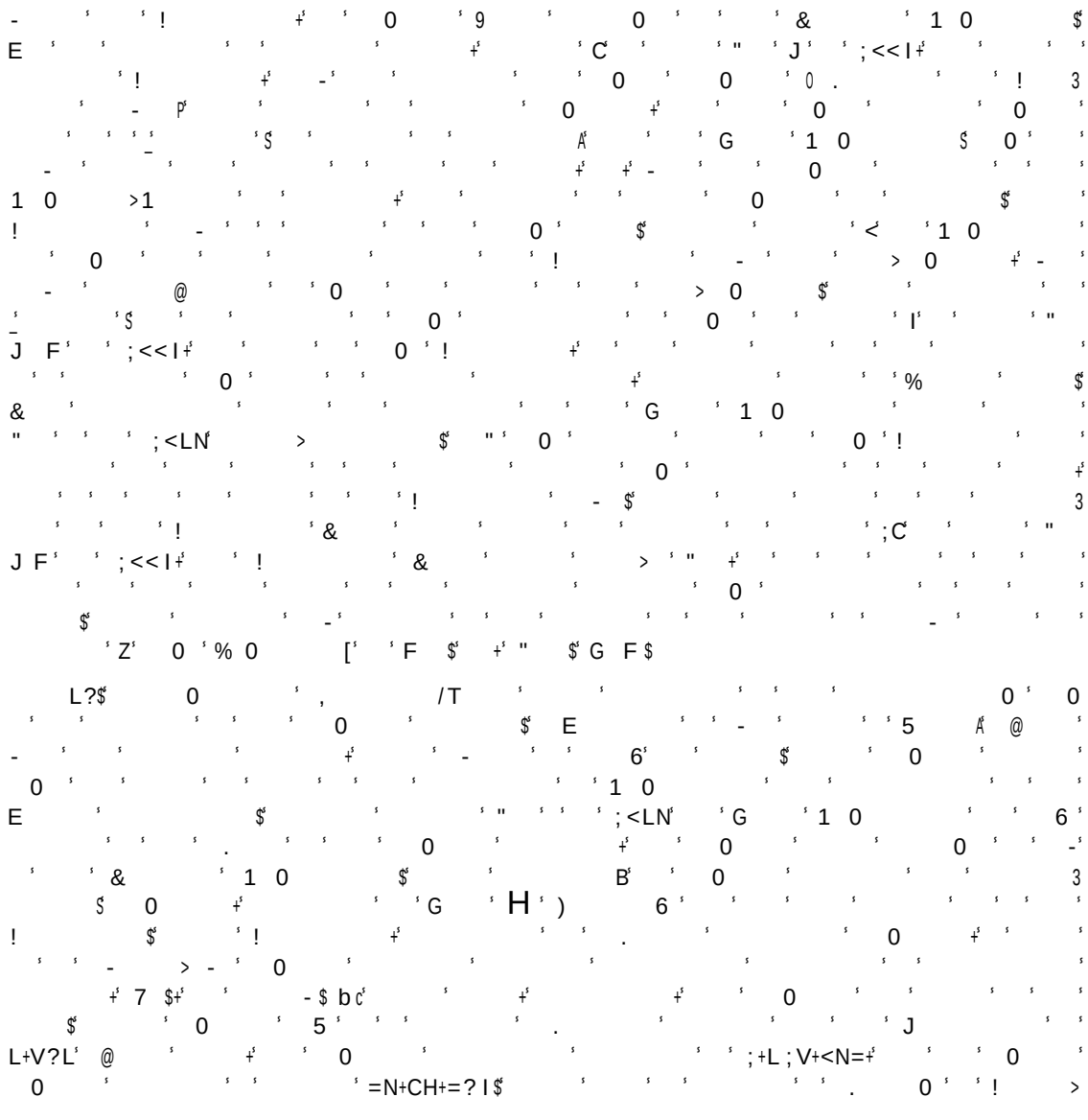
I D' #) ' . ' ' 'O ,Q 'b %E !,&''_6&&5'8&90/5*))-'&H01.1'/'''/(&)'*1'*'3,'&' /' `0.'<*1'+*).0.0''/&5'0/.''10H'1,*)&1'&*7'4&0/(')&(01.&)&5'*1'*'1&+*)*.&'&1.*.&' ,&''_6&&5'8&90/5*))-'*1'*/'&/.0)&'&1.*.&'01'4'2/5&5''/'.,&'/')..,'4-',&'%'5*6&)-'501.)07.N''/'.,&'&*1.'4-'.,&'1*9&'501.)07.'*/5'%''506*/5*'..5''CN''/'.,&'1'2.,'4-'.,&'A2/5&)'*/5'A&(3*5*'.*''C1'N*/5''/'.,&'3&1.'4-'.,&'A&_3*5*'.*''C'*/5'.,&'011*/*+&.,'506010'/')&*'#'1[2*)&'90&1'+ +/ .0'+' ! #!'/2904&)'':'60 *(&1' ')&6&/2&' 2+&&1'!;#!;'+&1,721,'4&:')&'+*).0.0'/' 2+&&1' !""' ',&' /-'09+').*/.'.'3/1'*)&' ''_6&&5' ,&'1&*.'':'.,&'8&90/5*)1 #;'9:&1'/').,@3&1,'':'D*120+*.*9 */5'%2J/*6*)*9@Q.,&',&*5@[.*).&)1'':'.,&' &+2.-' *,10 5*)*/5'D*(01.)*.&'0/'7,*)(&':'.,&'8&90/@5*).-'G06010'/' ,&' */(2*(&'1+'C&/'01' &' (' @ ,&'772+*.0'/':' .,&'0/'*40.*/.'01'7,0&:-'*(072.2)&' ,&'/-'9&.*&5')'*5'01'.,*.':)'9' ')0C&5'.'' +'_6&&5' !0'/:0&1''/(' ,)&&'17,''1''/'.,&'7'940/&5'1-1.&9'*/5'!'/'.,&')&12.'1-1.&9'*)&'9*0/.*0/&5'4-'.,&' '7*' 2/5'A'*)5'^*1'*1''*'.,0)5@7*11',1+0.*'*.' ''_6&&5'2/5&)'*'060'+'.,&7*)-' /'.,&',&*).'':'.,&'&1.*.&*)'10.2*.&5'.3''-*(&1@A'')*6*/7,*'*/5'D*6*)*9 4&'/(0/('.''.,&'0_*9' ').,'':'.,&' ':&'7*/*'.,&'1'0'01':+7C-N1'2.,'':'0.'0.'01'4*7C'7'..''/'')')&(2)' */5@1.'/&1':')'9'.,&'7,0&:(&''(07*':&*.2)&'':'.,&'/').,&)/'.)*7.' ,&'1.*+&'7)'+1'*)&'9*0_&'7,''*9''*/5')07&' ''':')&1.1'&H01.' ,&'8&90/5*)1'4&'/('.''.,&' &*9*'7*1.&'*/5'*)&'.,&'9 1.'*/70&/.'*/5')51'0/'.,&'501.)07.' ,&':0)1.'C/'3/'9&94&)'':'.,01':*90-'01'D&C*'A*1*6*//*'3,''&*60/(0'.,&'1&)607&'':'Y*,C*'*'C0/(''':' ,''*'7*9+':)'9'.,&'1'2.,'&*)-'0/'.,&'10H.&&/.,'7&/.2)-'*25'420.'*':').'&)*)'%'*2.,')0.-' A*9+,&/5)*')&101.&5'*/5'1.''5'*10&(&':'.,)&&'9'/.,1'0/'.,&' ''_6&&5':').'A2./':'/(*:.&)3*)51'.,&' '3J5*)'A'+1.29' -'Y,*/'.+'C'.,&':').'*/5'4a,&*5&5' *97,&,5)*'3,'1&'1C2'3*1'*55&5'.''.,&+0&':'.,&'_&90/5*)1'1C2 1''/'.,&'4*1.0+/'':' ')&':').' A''1./9' -'Y,*/'C&+.'.,&'&1.*.&1'2/5&)'9*/*(&P9&/.':')'.3&6&'-&*)1' &/'*.*5)-'+*'.,'A'3' ''_h&&5'0/'B$ '4.*0/&5' 9*5*)-'1///51':)'9'.,&' '3J5*)'*/50/' $#'8&90/5*))-'12//251':')'*':.,&' '+&)(///*,1':)'9' '4*,5*)' 0_*9' -'Y,*/' /' $##'.,&' '/5*+0 -'*/5 ')&'0)7*)1'3&)&'7&5&5'4-'.,&' 0_*9'.'' .,&'A*.' /50*' '9+*/-'30.,'3,'9' &/'*.*5)-' +*'.,=' 3'.)&*.&5')&(*)50/(',01'&1.*.&1' /' $$' ,&'50&5'*/5'3*1'1277&&5&5'4-',01'4)'.,&)' *)109,*' ++*,' '3' ,01'.2)42&/._&90/5*)'&/.*/(&5',091&:0/'3*):*)&'30.,'.,&' '9+*/-' /' '6&./4&)' $ "',01':')'.'3*1'5&1.)'-&5'*/5',&'3*1'))&9'6&5':)'9',&'_&90/5*))-',01'&5&1.'1'/' &+7*.*' *)109,*' ++*,' '3*'-'2/(&)'1'/':'.,&'5'_&90/5*)' *09&5',*:'.':.,&'_&90/5*))-'*/5'''&.&5'*'&)

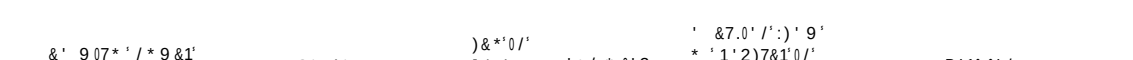


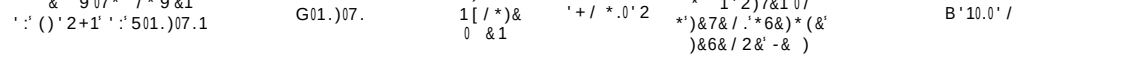
F G % F & , B&$

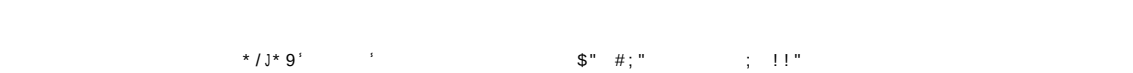


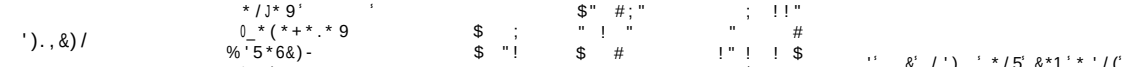


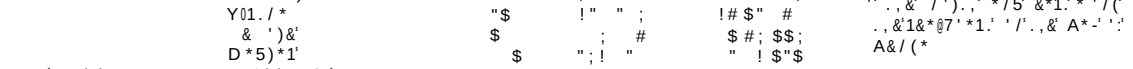


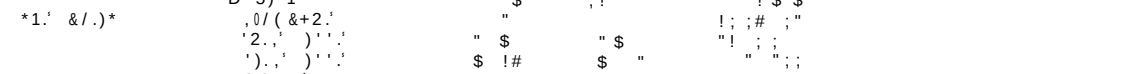


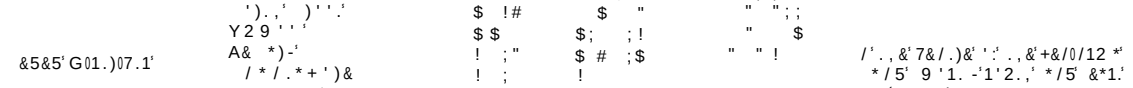


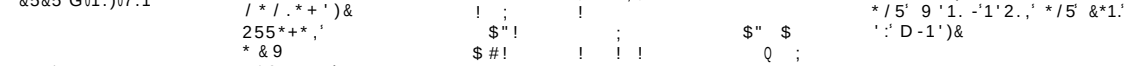


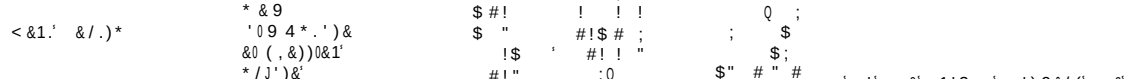


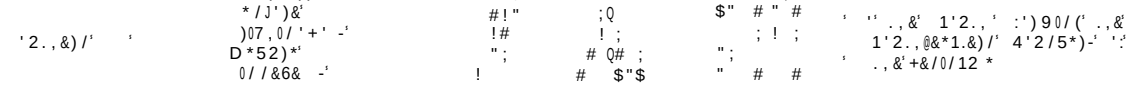


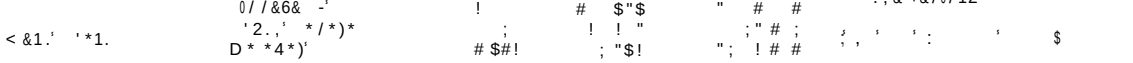


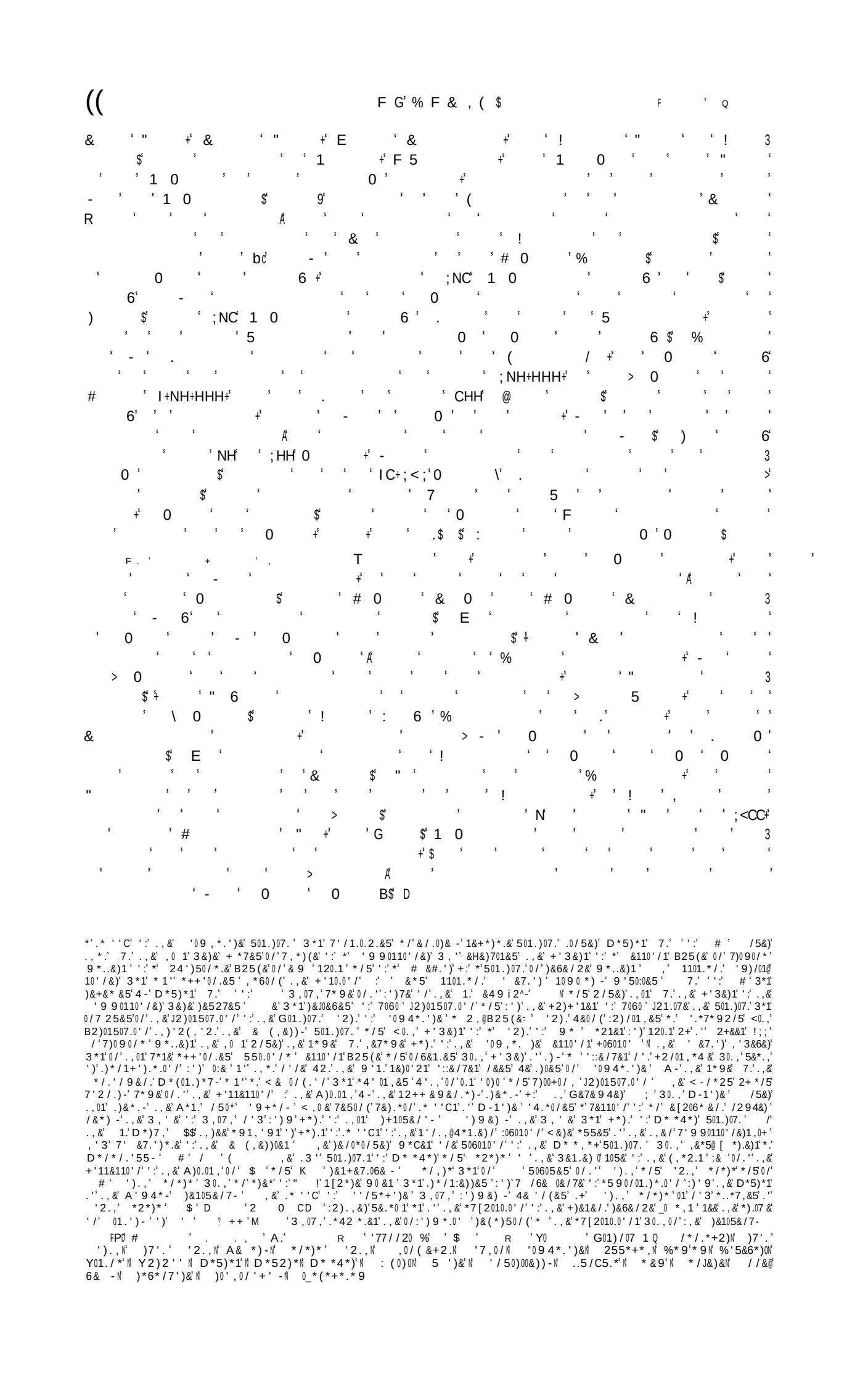


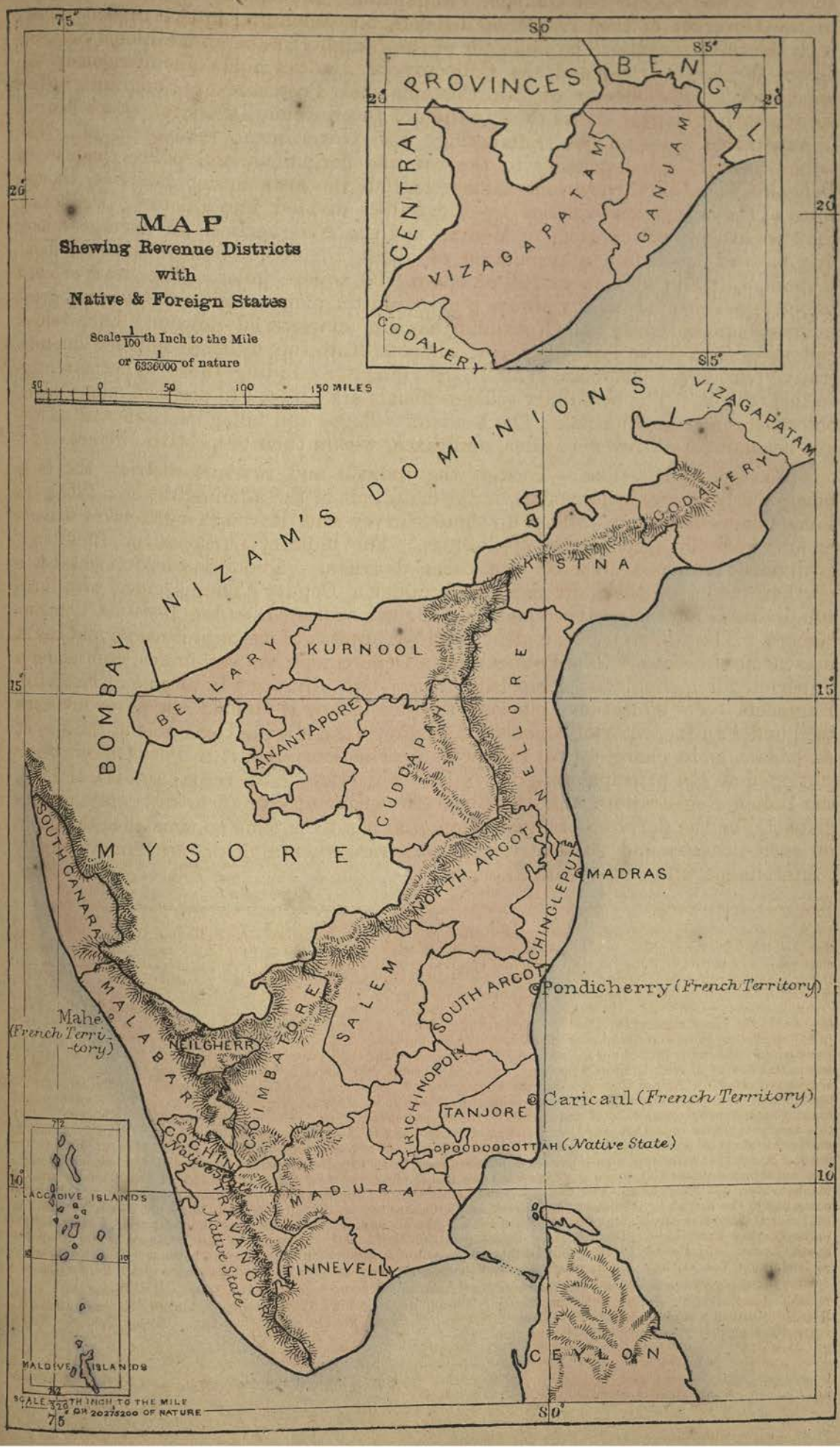


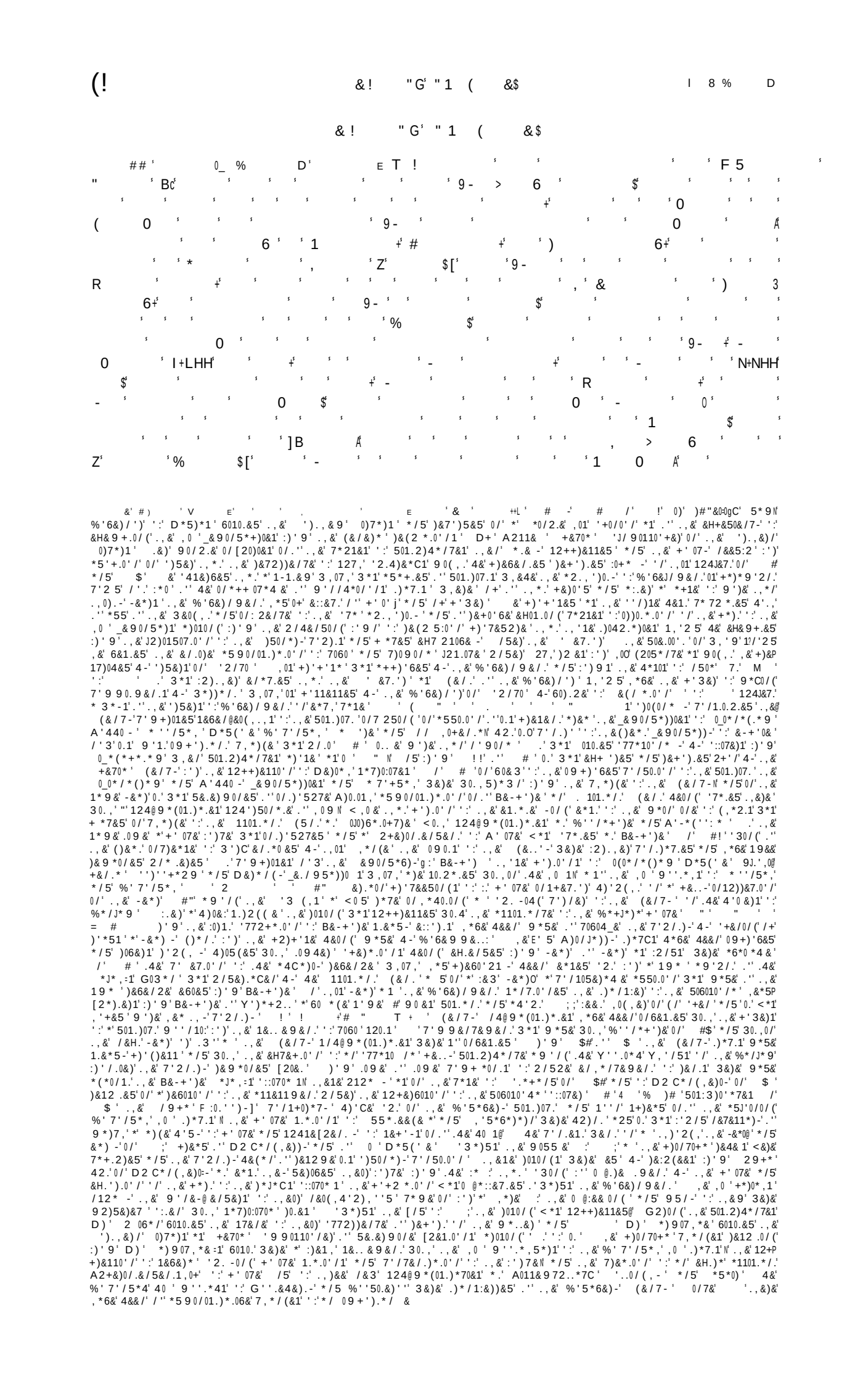


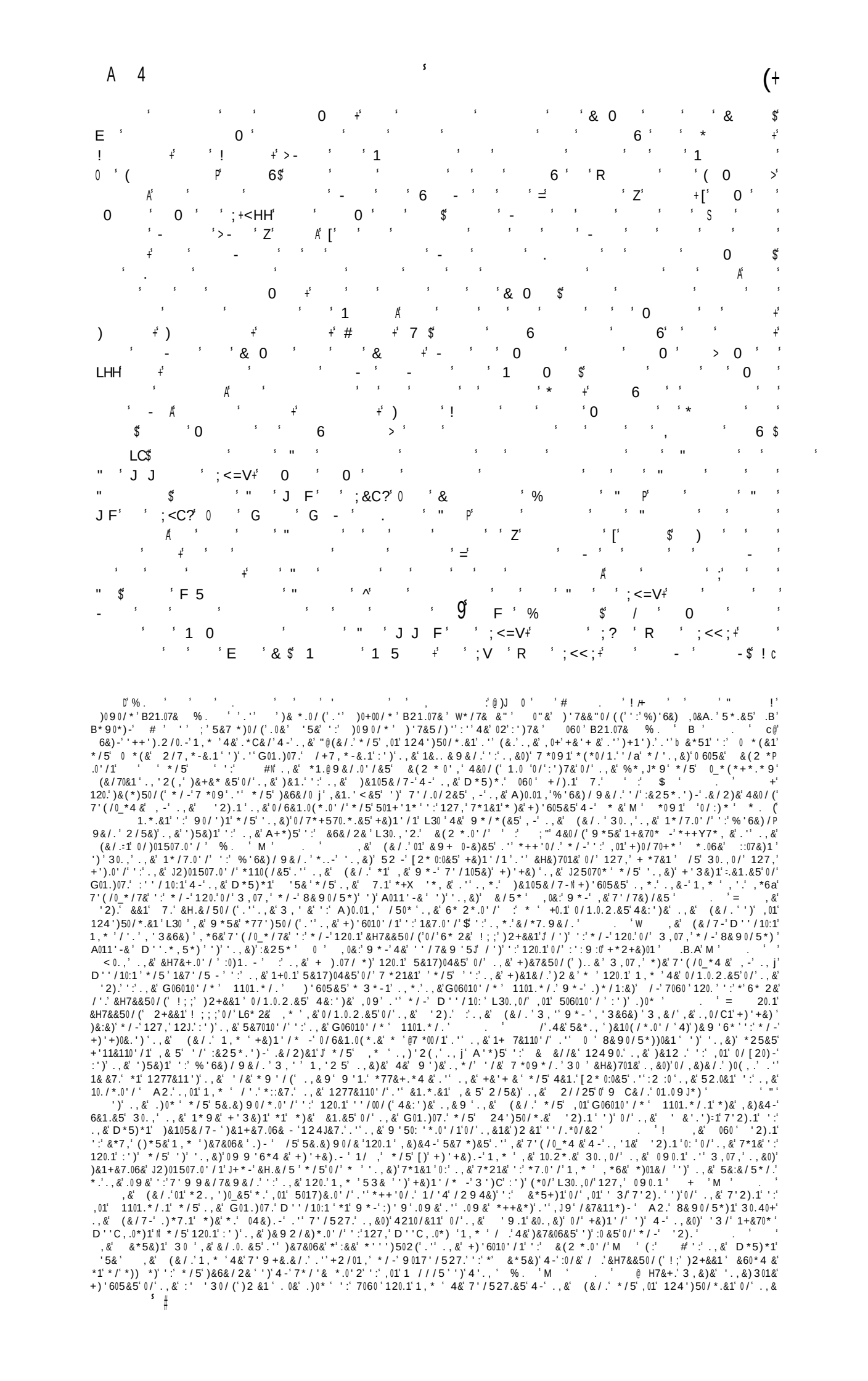


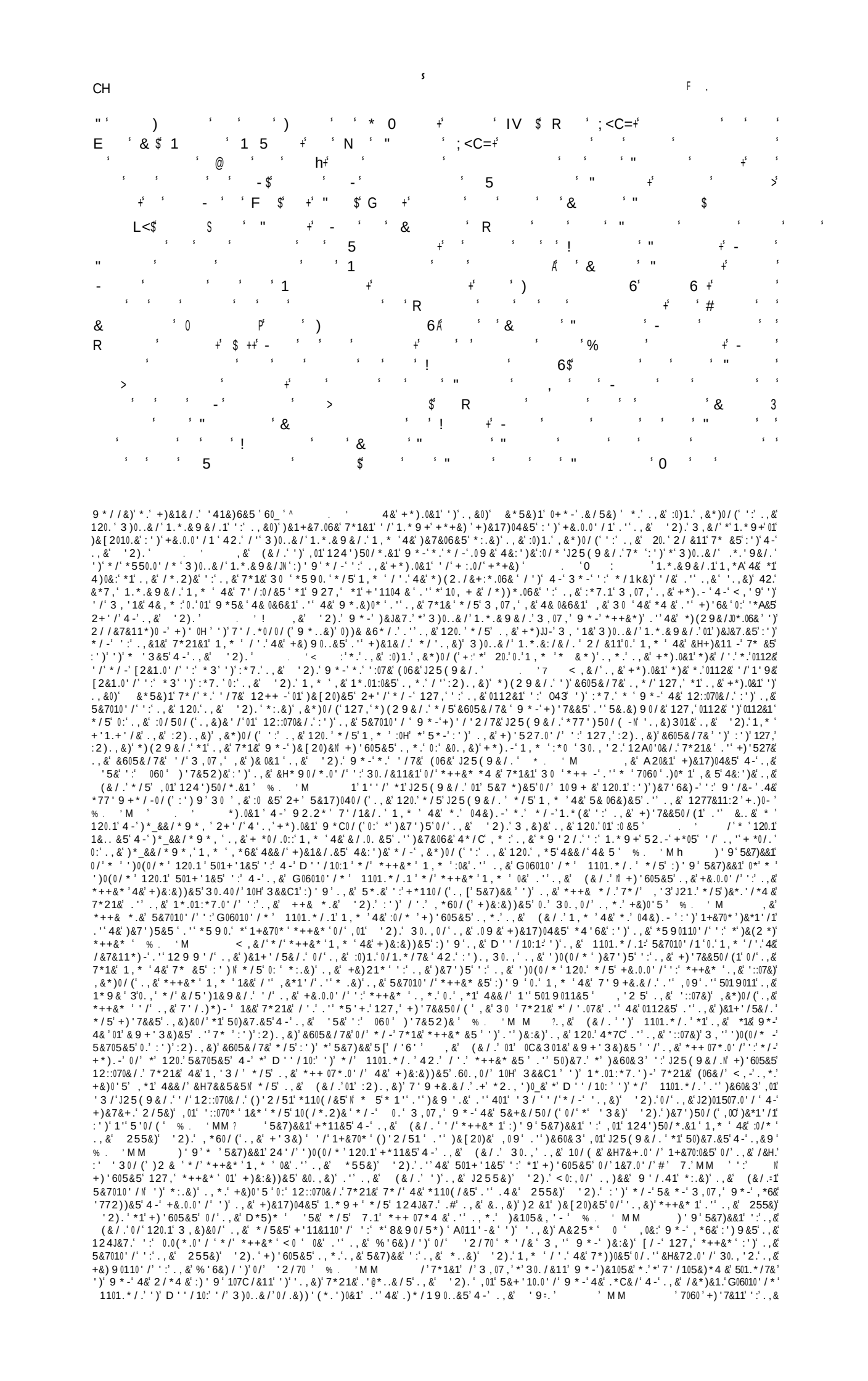


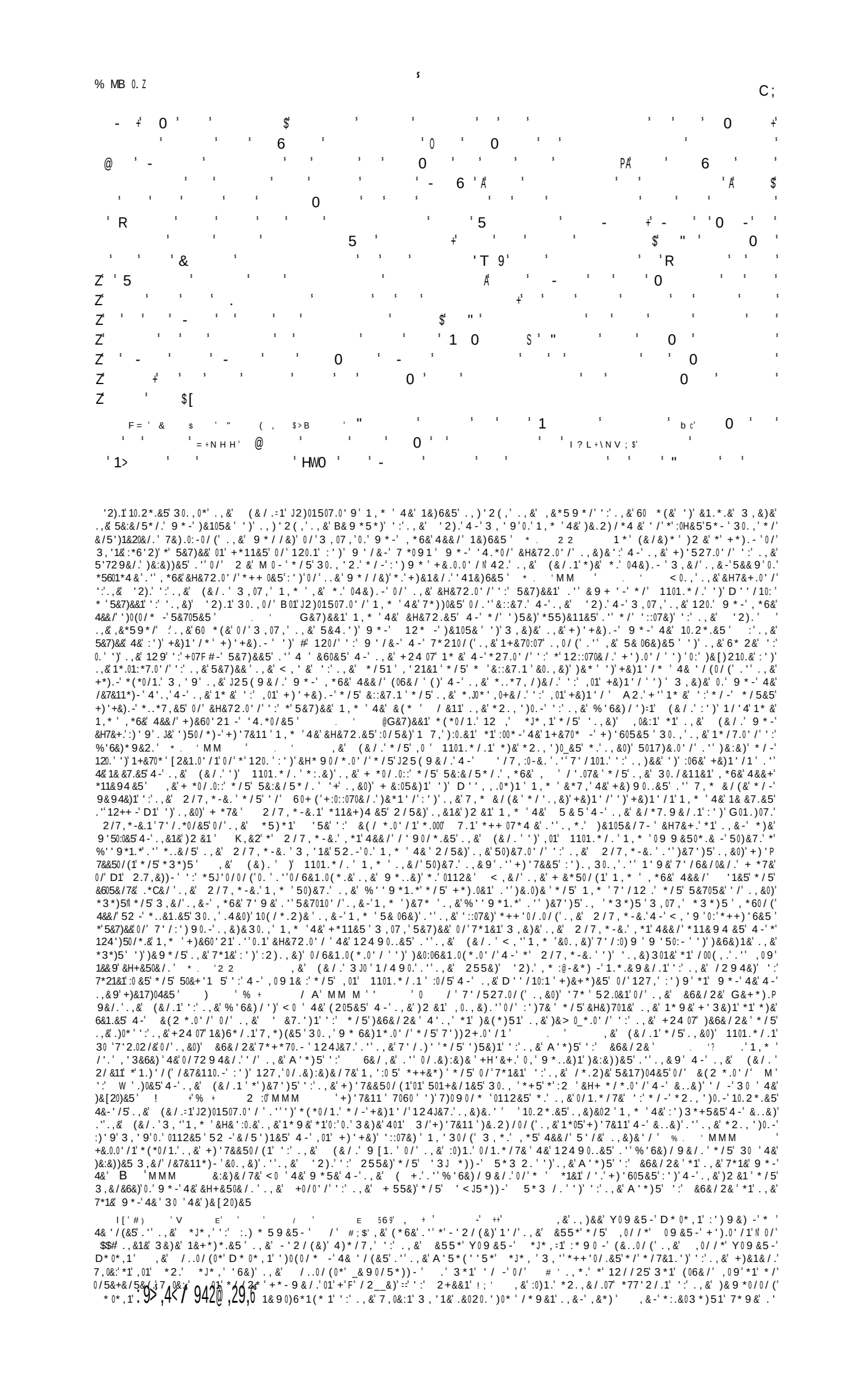



MAP
Shewing Revenue Districts
with
Native & Foreign States
Scale 1/100th Inch to the Mile
or 1/6336000 of nature
50 0 50 100 150 MILES
CENTRAL PROVINCES
BENGAL
VIZAGAPATAM
GANJAM
GODAVERY
BOMBAY
NIZAM'S DOMINIONS
VIZAGAPATAM
GODAVERY
GUNTUR
KURNOOL
BELLARY
ANANTAPORE
CUDDAPAH
NELLORE
MYSORE
SOUTH CANARA
MALABAR
NEILGHERRY
COIMBATORE
SALEM
NORTH ARCOT
CHINGLEPUT
MADRAS
SOUTH ARCOT
Pondicherry (French Territory)
Mahe (French Territory)
TRICHINOPOLY
TANJORE
Caricaul (French Territory)
POODOOCOTTAH (Native State)
COCHIN (Native State)
MADURA
TRAVANCORE (Native State)
TINNEVELLY
LACCADIVE ISLANDS
MALDIVE ISLANDS
CEYLON
SCALE 1/320TH INCH TO THE MILE
OR 20275200 OF NATURE
75°
80°
85°
25°
20°
15°
10°

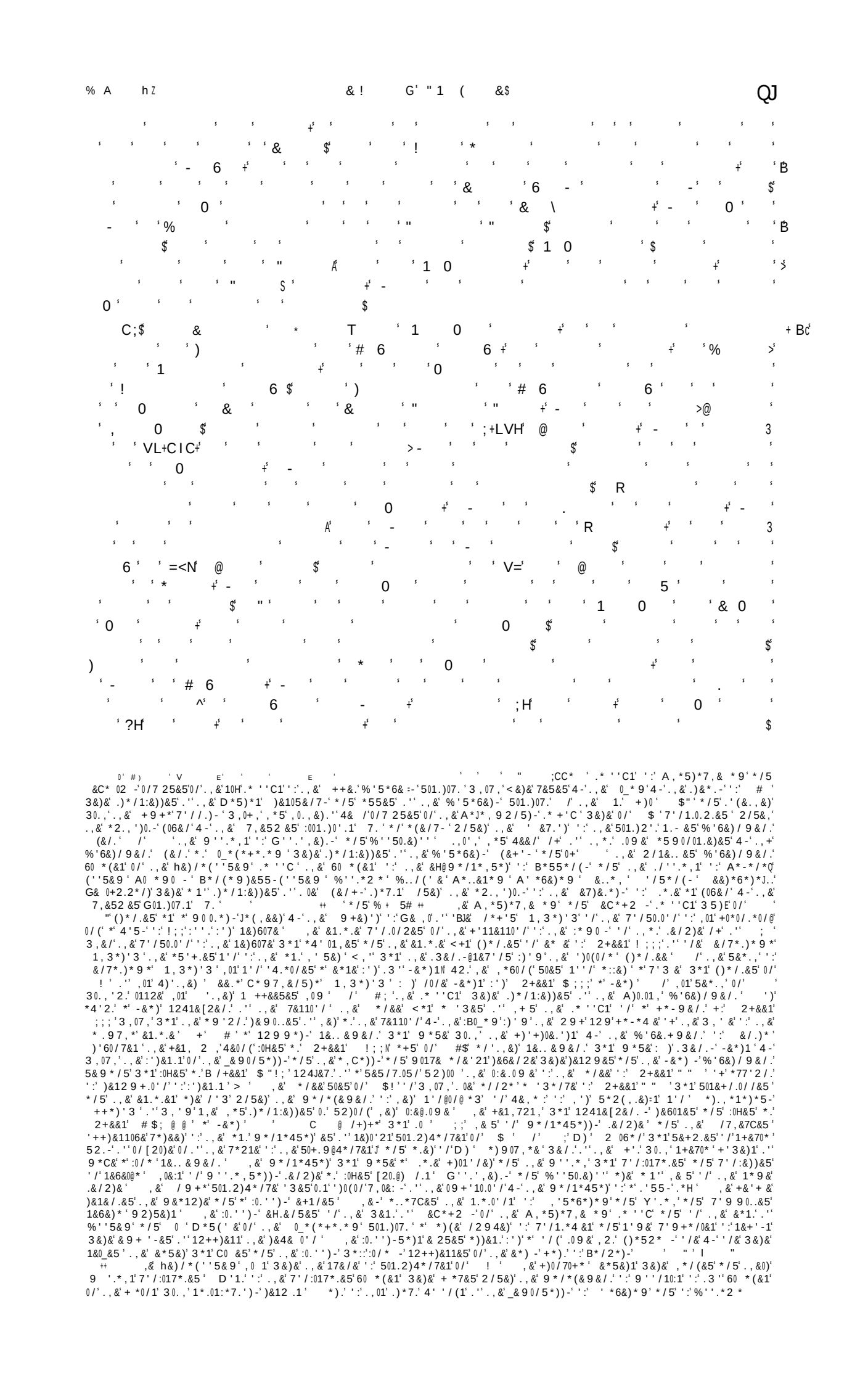


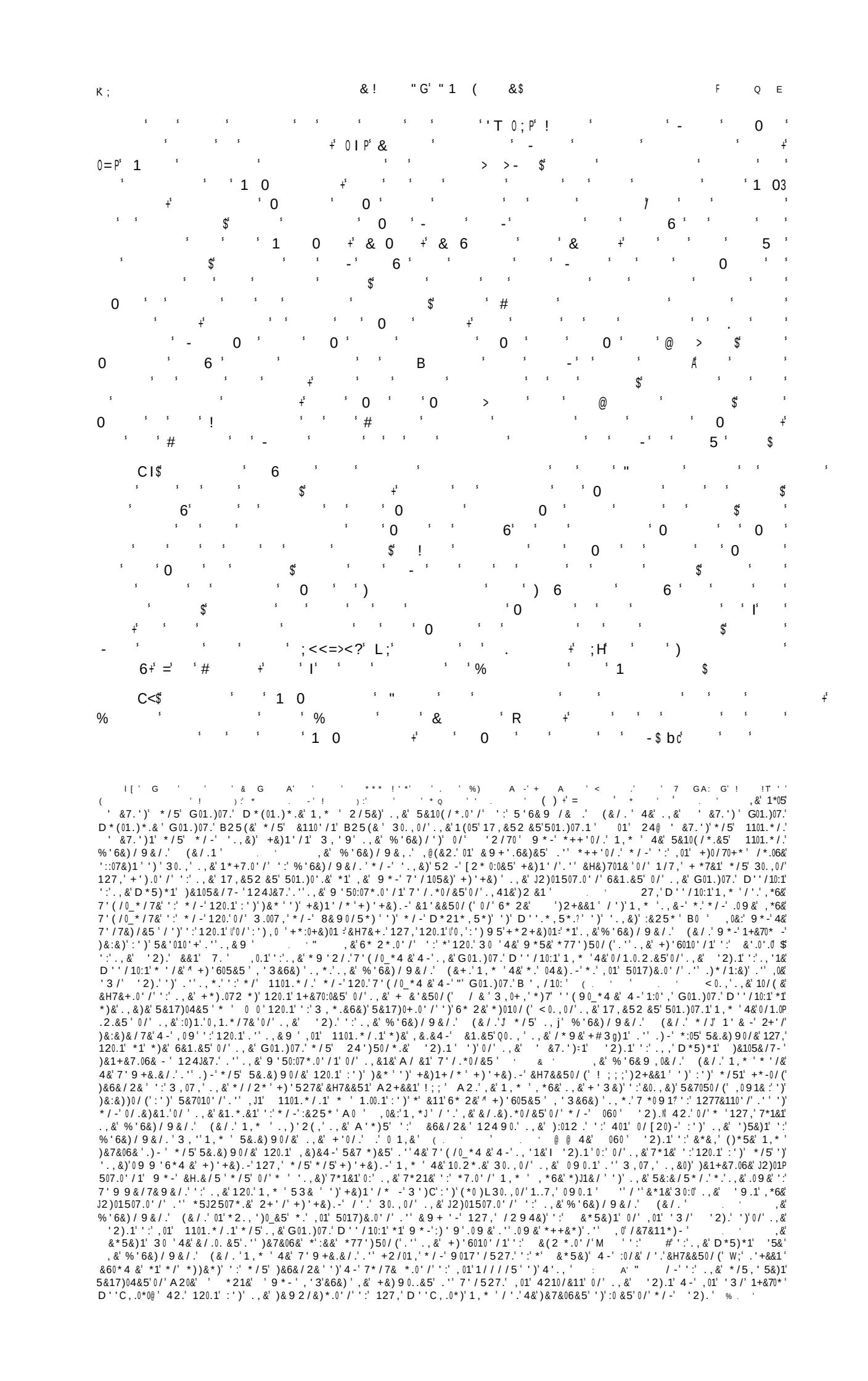


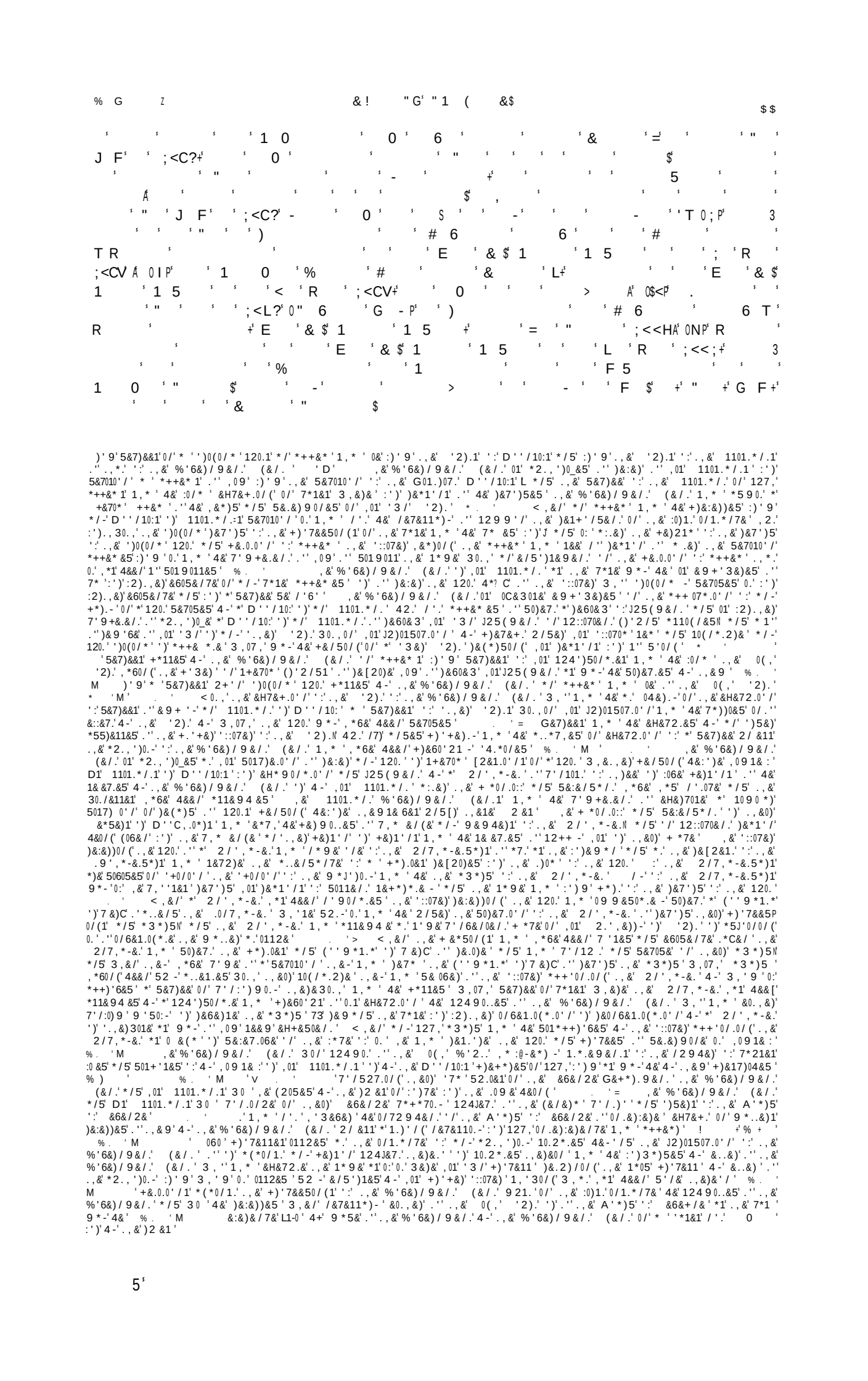


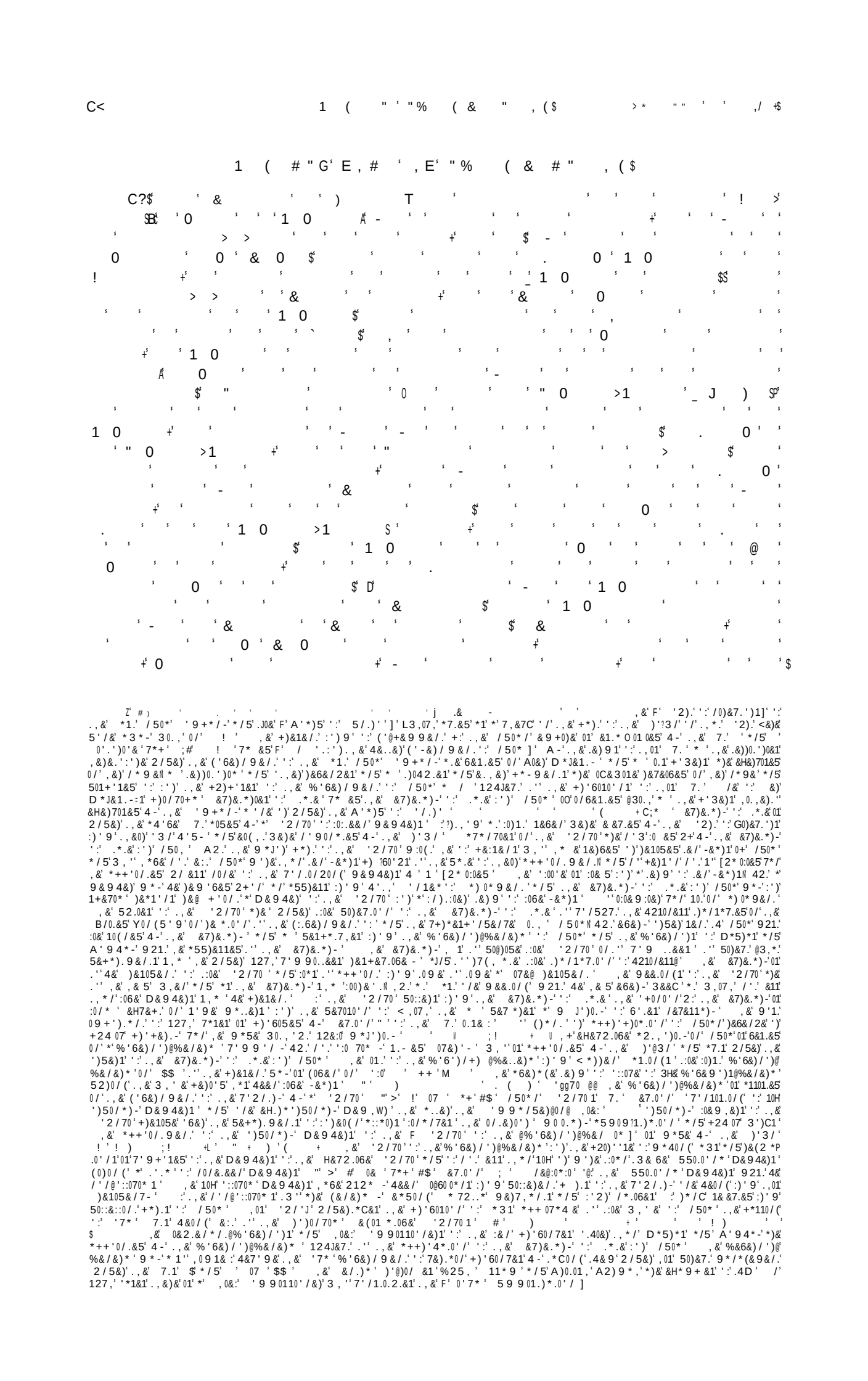


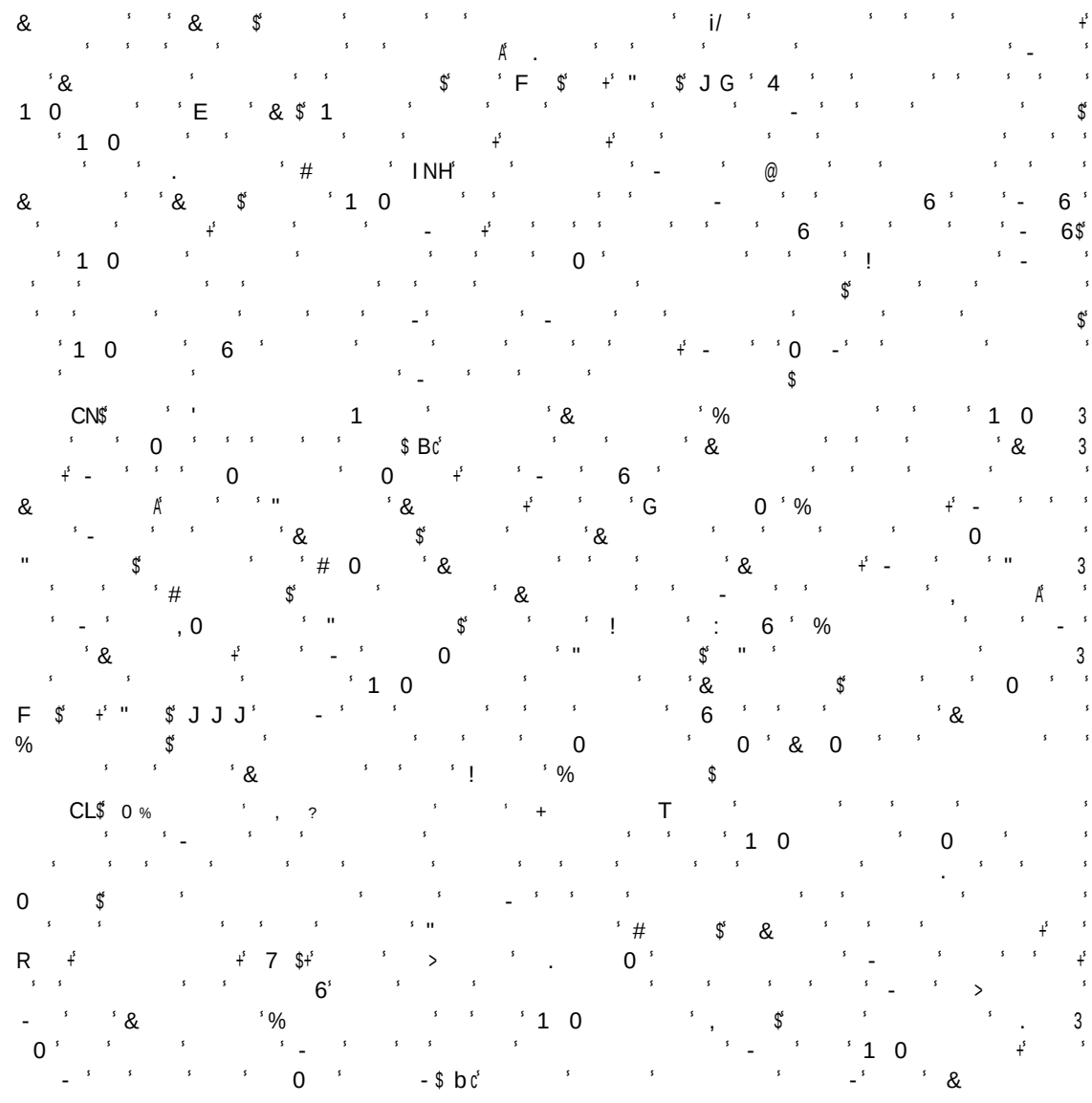
4&' 0/7 25&5' 0/' . ,&1&' _&90/5*))0&1' . , '2(,' 0.' 3*1' ' / -' /&*)' . ,&' 4&(0/ /0/ (' ':' . ,01' 7&/ .2)-' . ,i .' . ,&' / '). ,&)/ ' , * :' ':' . ,&' %' ' 91' ')' D* 0*, 1' .)*/ 1:&))&5' 0.1' * &(0*/ '&' :)' 9' A' *5' .'' %' ' 91' ')' H7&+.' *1' + *7&1' 3 ,&)&' ,29*/' 1*')0:07&*' 3&)&' +&):')9&5' */5' *' +&1.0&/ .0* ' 7 09*.&' +)&6*0&5' / ' . ,0/ (' 3*1' C/' 3 ,' ':' . ,&9' .0 ' . ,&' 501./), */7&1' J/' *) *C09&5-' 0/' ' */5' 0/' %' ' 91' ')' 0/' #' ' & ' +-' # +' (/ ' . ,&) A011'-&1' ')' , 0 ' 7 ,0&:1*' ': *) *C09&5-' 3&)&' 7' /7&) /&5' 0/' *' 7' /1+0)*7-'*(*0/1.' *' 9*/*(&)' ':' . ,&' &1.*.&' < ,'' 3*1' '4/' H0' 21' .'' . ,&9@ C01' 1.*.&' :'0/12))&7.0' /' , *5' 4&&/' 7 ,)' /07' 10/7&' ;!' D)' 211& ' 0)1.' D&9 4&)' :' . ,&' A' *)5' :' &6&/2&' 3*1' . ,&)&:')&' *++' 0/.&5' +&70*' ' 9 90110' /&)' .'' 1&.. &' 9*..&)1' 01' *4')1' 3&)&' / '.' 7' /7 25&5' .0 ' +)0' "' */5' . ,&/' / -' . ,&' A011'-&1:'). 1' *4' 6&' (, *2.1' , *5' 4&&/' 772+0&5' 4-' .)' '+1' /' . ,01' *::*0)' D*J')' A*H.&)' 0/' 7' 9 9*/5' ':' . ,&' .)' '+1' 50&5' :)' 9' . ,&' &::&7.1' ':' */' *))' 3' 3' 2/5' ,&' *) *C09&5-' 501.2)4*/7&' D*J')' 3*1' , *)5 -' '6&)' 0/' . ,&2' . ' 3 ,&/' *' 1090*)' 501.2)4*/7&' *)' 1&' 0/' %' ' 91' ')' ' 30/ (' . '' . ,&' *J*, ')&:210/ (' . '' +*-' ,01' *))&*)1' ':')&6&/2&' D)' /11& ' <*1' *++' 0/.&5' *(*0/' *1' +&70*' ' 9 90110' /&)' ,&' *J*, ')&.0)&5' . '' . ,&' D* 0*, 1' 30. ' , 01' .)&*12)&' */5' 0/' &4:/*)-' #. ,&' .)' '+1' :' '3&5' ,09' . ,&)&' ,01' 01' . ,&' :0)1.' .09&' . ,*.' . ,&' A)0.01, '7*9&' 0/' *7.2*' 7' /.*7.' 30. ' . ,&' Y, ' /51' ,'2(, ' . ,&-')&:21&5' . '' (06&' 2+' . ,&' *J*, ' , '1.0 0.0&1' 30. ' . ,&9' 505' , ' . ' 7' 9 9&/7&' .0 ' . ,&' 1&+' -1' 4-' . ,&0)' &H7&11&1' , *5' &5' . ,&' Y, ' /51' . '' 9*C&')&+)01*1' ,&' */-' 1277&11' . ,&-' , *5' 3*1' . ,&' 5&1.)27.0' /' ':' .3'': 57&)1' */5' . ,0).&&/' 9&/' ./' . ,&' ')90/(-*,' +*11' &101.*/7J&' 3*1' 7' 9+&.&-' '6&)7' 9&' 4-' . ,&' 4&(0/ /0/ (' ':' ?J, &' *J*, ' , *5' 50&5' *.' '5*-*@ (, &))-' 6&)-' 1' ' /' *:.&)' ,01' *))06*' 0/' . ,&' ,0 1' */5' G')*' A011'-&' *' A&/ /0*, ' Y, ' /5' , *5' 7*))0&5' '/' . ,&' 1.)2((&' .0 ' 0.1' 7' /7 210' / ' %' ' 91' ')' */5' ' ')*5*, ' 3 ,07, ' 4-' +2)7, *1&' 3*1' 2/5&)' . ,&' %' ' 91' +)' *J*, ' 3&)&' . ,&/')&12&5' . ,&' _&90/5*/@0&1' 4&0/ (' : ')0.&5' , &' .)&*12)&' 1*05' .'' *9' 2/.' .'' 2+&&1' '; ; ; ' 3 ,07, ' . ,&' %' 59&')' *J*, ' &/.)21.&5' . '' ., &' Y, ' /51' 01' 1*05' .'' 4&' 1.0 ' , ' / ')*4 -' C&+.' 4-' . ,&9@ ' & ' ' ' ' ' ' ' " ' ' + ' ' < < $ ' ' D)' 211& :1')&+')./' / ' . ,&1&' &6&/.1' 5)&3' *..&/.0' /' . ''. ,&')0.&' ':' ,29*/' 1*7)0:07&' C/' 3/' *1' . ,&' 9&)0*, ')0.&' 7' 9 9' / -' +)*7.01&5' 0/' . ,&' D* 0*, 1' , &' :0)1.' 1.&+' .*C&/' .'' 12++)&11' 0.' 3*1' . ,&' *++' 0/.9&/.' ':' D)' 211& :1 &7)&.*)-' *+.*0/' *9+4& ' .'' . ,&' 7, *)(&' ':' %' ' 91' ')' */5' ' ')*5*, ' 30. ' 1+&70*' 7, *)(&' 6&)' . ,&' Y, ' /51' 42.' 30. ,' / '' 9&*/1' ':' +2/01, 0/(' . ,01' 1+&70*' 7)09&' &' <*1' *.' :0)1.' 1101.*/.' ' &7.')' 42.' 3 ,&/' +.' MM ' ':' ' 3*1' +*11&5' (060/(' . ,&' 7060' */5' 7)090/*' *590/01.)*.0' /' ':' . ,&' 40 ' .)*7.1' .'' . ,&' ' &7.')' *1' (&/.' .'' .:0&' %' 6&)/')' ':' ').' .' %&')(&0/' %*/J*9 ' , &' 4&7*9&')0/70+*' 1101.*/.' ' . ,&' (&/. ' +')' :' 2)' -&*)1' , &' */2* -' 9*5&' 1, ')' .+2)1' *4' 6&' (, *2.1' */5')&172&5' 0/' . , *.' .09&' ;' 607.09 1' 5&1.0/&5' :')' 1*7)0:07&' &' 3*1' 1277&&5&5' 4-' *+.*0/' D*'+, &)1' /' 0/' " ' , 01' ' ::07&)' (*6&' ()&*.' *..&/.0' /' .'' . ,&' 12++)&110' /' :' :&9*&' 0/:*/.0705&' *' 7)09&' *)010/(' :)' 9' + 6&).-' +)&6*&/.'0/' . ,&' ' ')*5*, ' D* 0*, 1' */5' . ,'1&' +*).1' ':' D /*' Y09&5-' *5J*7&/.' .'' . ,&9' /' W"! ' 4-' 3, 07, ' .09&' , &, *5')&172&5' !!' 607.09 1' , &' 3&/.' .'' * 72..*' .'' .*C&' +*).'0/' + */ /0/(.' , &' 5&.*0 1' ':' . ,&' 17, &9&' :')' . ,&' D&)0*, ' *(&/7-' 3, 07, ' 3*1' *' 7' 9 +&.&' 17, &9&' 2/5&)' . ,&' %' 6&)/9&/.' ':' /50*' :' 4' 12++)&110/(' . ,&' 5' 24&' +)*7.07&' ':' , 29*/' 1*7)0:07&' */5' :&9*&' 0/:*/.0705&' */5' 3*1' &1.*4 01, &5' 4-' 7.' MM ' ':' "! " ' * ' ' ' ' ' ' !) ' '$ & ' " ' ' "! /5&)' . ,&' 7.' J/1.' 9&/.0' /&5' *+.*0/' D*'+, &)1' /' 3*1' *++' 0/.&5' ., &' :0)1.' (&/.' .'' . ,&' %' 6&)/')@%&/&)*' 0/' . ,&' ,0 '.)*7.1' ':')011*')& 0&60:0(' . ,&' &7.')*/5' (&/.' ':' %*/J*9' ':' . ,&' D*0*, ' .)*7.1' /' "# ,&' +)' 7&&5&5' .'' A' *5' f*/5' . ,&)&' ,&')&1.')&5' .'' . ,&' Y, ' /51' '607.09 1' . ,&' A' *5' *J*, ' 4&7' 90/(')&1+' /104 &' :')' . ,&0)' 1*:&.-' :.&)' . ,01' ,&' 9*)7, &5' 4*7C' .'' 211& ' /5*, ' 01' 7*9+' 3*1' *..*7C&5' 1&6&)*' .09&1' 4-' Y, ' /51' 0/' ++&)' %' ' 91' ')' , &' Y, ' /51' 4& 0&60/(' . ,&-' 0:05' 5&:&*.&5' ., &' 70)7*)' . ,&/' 0/60.&5' :)' 9' :0(' &, 'C)'' A011'-&' *' /&*)')&*.0/' *' :'G')*' A011'-&' ., &0)' &*5&)' 0/' #' , 'C)'' A011' -&' 1&.' , 091&' :' *.' . ,&0)' ,&*5' *1' ., *' 7, *9+0' /' ':' . ,&' 9&)0*, ' , &' , '7*+*25' A011' -&1' */5' *0C1' *)(&-'12++')&5' ,09' A&0/(' , *)5' +)&11&5' , '3&6&)' ,&&:.' ., &' , 0 1' */5' .'' C' .'' + 2/5&)' */5' *)1' /' 0/' . ,&' + */1' 0/50/(' . ,&)&' ., *.' . ,&' 7*21&' ':' 9&)0*, '+'11&11&5' 0.. &' 0/.&)&1.' , &' +)' 527&5' *' 7, 0 5' */5' 1&.' , 09' 2+' *1' . ,&' 1' /' ':' .4 j' *.&' %' ' 91 ')' *J*, ' , 01' *..*7, &5' .'' , 01' 7*21&' 7&).*0/' 4' 50&1' ':' 3*/5&)1' .' . ,01' J2/7.2)&' A)0(*50&)@%&/&)*' G-7&' *112 9&5' 7' 9 9*/5' :' *' . ,&' .)' '+1' &/(*(&5' :0. ,0/' *' 3&&C' ,&' 1&/.0/' 1/' 4' *')&+').' ' /' . ,&' D&)0*, ' (&/.' */5' , 01' 1101.*/.1' 0&2.&/*/.' 0/C/&-' */5' 1101.*/.' 2)(&' /' *5&/, &*5' . , *.' . , &' %' 6&)/9&/.' ':' /50*' 121+&/5&5' . ,&9' */5' %&/&)*' G-7&')&9*0/&5' 0/7, *)(&' .0 ' +)0' "$' 3, &/' 0&/.&/*/.@ ' '/&' *9+4& ' 3, '' 3*1' 1299' /&5' .'' . ,&' 1 &/&' ':' , 01' ' 5' *4')1' .' 'C' 7, *)(&':)' 9' , 09' :.&)' */0/[20)-' &H.&/50/(' '6&)' *' -&*)' */5@*@, *' 4-' D)' %)*/(' . ,' ':' . ,&' A&/(*' 060' &)607&' , &' :')9&)' ':07&)1' :' . ,&' (&/7-' 3&)&' , '/')*4 -' *7[20..&5' /' " ' ' '/&' *9+4& ' 3, '' , *5')&172&5' :)' 9' A&*5' ! 07.091' . ,&' -&*)' 4&:')&' 9*5&, 01' :0)1.' 7*9+*0(/'0/.'' , 0//*' Y09&5-')&1720/(' ;# 607.09 1' 9' 1.' ':' 3, ' 9' 7*9&' :)' 9' D2, *10/(-' , 0//*' Y09&5-' 3*1')&(2*)-' .)*6&)1&5' 0/' 1277&&50/(' -&*)1' .'' 7*))-' '2.' , &' 4J&7.1' ':' . ,&' *(&/7-' .&' *1.' +24 07' , 29*/' 1*7)0:07&' .'' C' +*7&' . ,&)&' 0/' ! ')' 9' :&6&)' ':0.)*7.&5' . ,&)&' *+.*0:0')-&' . ,&' 1101.*/.' (&/.' */*77' 9+01, &5' Y, ' /5' 0/(201.' '1.' , 01' 0:&' 0/' !!')9&5' '++'10.0' /' 3*1' / -' 9&.' 30. ' 0/' . ,&' 1&*1' /' ':' ! @! ' 4-' Y, ' /51' ':' . ,&' /&0(, 4' 2), ' ' 5' ':' 2/0(2), ' */5' 0/' !!' /&*)' 2:0C*(2), @' , 01' *..&)')&101.*/7&' 3*1' , ' 3&6&)' 0/1.0(*.&5' 4-' , '(C)'' A011'-&' 3, '' 3*1' 1.0 ' *.' *)(&' !' & ; ' ' & ' .30., 1.*/50/(' . ,&' 1.&*5-' 3')C' ':' . ,&' *(&/7-':)' 9' "!' '/3*)51' :06&' 1*7)0:07&' . ''C' +*7&' 0/' . ,&' %' ' 9' ')' D2 0*, 1' 0:0' !!' */5' .3 ''0/' !$' /' !;' . ,&' D*0*, 1' &H7&+.' *1')&(*)51' . ,&' 7)09&' ':' , 29*/' 1*7)0:07&' */5' 0/:*/.0705&' , *5' 4&&/')&1.')&5' . '' . ,&' J2)01507.0' /' ':' . ,&' (&/.' 0/' %*/J*9' /' ! ' . ,&')&(2*)' +' 07&' 3&)&' 0/.)' 527&5' 0(.'' %' ' 91' ')' , &' 9&)0*, ' ':07&)1' *..)04 2.&5' . '' . ,&1&' 1.&+1' . ,&')&72))&/7&' ':' *')0.&' 4& 0&6&5' . '' , *6&' 4&[/' *4*/5' /&5' 9*/-&*)1' 4&:')&' #' (+ ' ' & ' # /' !'" ' ' /&' *9+4&')&.0)&5' &' 3*1' 1277&&5&5' 4-' *+.*0/' D*' 077*, ' 3, '' / -' , & 5' ':07&' :')*' -&*)' , &/' 0&2.&/*/.' D*7/&0' 4&7*9&' . ,&' D&)0*, ' (&/.' *' +' 1.' , &' , & 5' .0 ' . ,&' 1.' D:0-' # ' 3, &/' 2/5&)' *')&1' 2.0' /' ':' . ,&' %' 6&)/9&/.' ':' /50*' ':' . ,&' +)&60' 21' G&7&9 4&)' . , [' *(&/7-' 66*1' *4' 01, &5' , 01' 3*1' :' ' 3&5' 4-' . ,&' +' 07&' 4&0/(' 0/.)' 527&5' 0/.'' , 0//*' Y09&5-' *' */5' . ,&' *590/01.)*.0' /' 4&0/(' 7' /527.&5' *1' 0.' 01' *.' +)&1&/.' . ' (&. ,&)' . ,&' D&)0*, ' (&/7-')&172&5' 1' 9&' ';;' 607.091' :)' 9' . ,&' %' ' 91' ')' */5' , 0//*' Y0.[&5-' D*J0*, 1' ')' 9' . ,&' &55*' Y09&5-' */5' *)*C09&5-' D* 0*, 1' 0/, *40.&5' 4-' ' 3)*, 1' 3, '' 3' 2 5' +*).070+*.&' 0/' . ,&' 1*7)0:07&' +&?):' D/&5' 4J' Y, ' /51' 42.' 3, ''505' /' .' 0/52(&' 0/' . ,&')0.&' . ,&91&6&1' . ,&)&' 3&)&' /' /&' .'')&172&' $' ' ' $$ ::*0)1' 505' /' .' +)' 7&&5' 1*.01:*7.')0-' ' /' . ,&' :0)1.' 0/.)' 527.0' /' ':' . ,&' /&3' 1-1.&9' 0/.'' , 0//*' Y09&5-' +*). -' :)' 9' . ,&' 501 0C&' ':' . ,&' Y, ' /51' .'' :0H&5')2&' ':' */-' 1')' */5' +*). -':)' 9' . ,&0)' 4&0/(' :')5&5' .'' < ')C' 52)0/(' . ,&' 72 .06*.0/(' 1&*1' /1' ' /' 9*C0/(')' *51' /' '2.4)&*C0/' . ,&' ')*5*, ' D* 0*, 1' 3*1' :' ' 3&5' 4-' *' 9 ')&' 1&)0' 21')010/(' 0/' . ,&' 3&1.' C/' 3/' *1' . ,&' Y' ' .0*, ')0&0/(' ':' ##' . ,' 2(, ' 9*/-' 60 *(&1' /' .' :' Y' ' .0*, ' Y, ' /51' J' 0/&5' 0/' 0. ' , 01' . ' ' C' 1' 9&' .09&' . '' 12++)&11' */5' 09 9&50*.&-' *::.&)3*)51' . , &)&' 3&)&' . , &)')010/(1' 0/' . , &' /&0(, 4' 2), ' ' 5' ':' A* 9 9' ' /0(*29*/5' 0/' . ,&' A' 5*(' ' 5*' D* 0*, 1' , &' *1.' *::*0)' 0/' $$' 3*1' * 1' ' 0/' . ,&1&' D* 0*, 1' * /5' 01' C/' 3/' *1' . ,&' ' ' .0(' 5' ')010/(' . ,&' *::0*0)' ':' ## &5' . '' . ,&' +&70*' 1101.*/.' (&/.' . ,&/' 7* &5' . ,&' B[/0')' 1101.*/.' (&/.' */5' . ,&' 1101.*/.' 2+&)0/.&/5&J2.' ':' 07&' , *60/(' . '')&105&' 10H')' &0(, ' 9' /. ,1' *4' 6&' (, *2.1' */5' * 1' ' 0.' 4&0/(' :' 2/5' ., *.' . ,&' ,0/ /*' Y09&5-' *J*, ' , *5' / ' ' 0/: 2&/7&')' *2., ')0.-' ' 6&)' ,01' D* 0*, 1' . '' . ,&0)' 4&0/(' 1&6&)&5' :)' 9' . ,&' _&90/5*))-' */5' .*C&/' 2+' 4-' %' 6&9/&/.' ,01' 3*1' :0/* -' *77' 9+01, &5' 0/' $' ' 2).&&/' , 0 ' 7, 0&:1' 0/' . ,&9*+*-' / ' 3' . ' ' %' 6&)/9&/.')2+&&1' *' -&*)' &*7, ' . ,&' */ /2*' .)0(42.&' 9' /&-' . ,&-' :')9&) -' +*05' . '' . ,&' _&90/5*0)' 3, '1&' +&1, &21, ' 3*1' 7' ')&1+' /50/(-' 5090+01, &5' ' (" ' ' ' ' ' ' ' " /' ## %' ' 91' ')' */5' ' ')*5*, ' 4& ' 3' (, *2.1' 3, 07, ' 2+' .'' . ,&/' , *5' 4&&/' (&/7-' .)*7.1' 10/7&' :0 ' 3&)&' .)*/1:&))&5' .'' . ,&')50/*)-' J2)01507.0' / ' 4' 7*+*/5' ')*5*, ' */5' A7/*4*, ' 3&)&' .)*/1:&))&5' -60.:0' . ,&9' 42.' . ,&1&' 3&)&' (06&/' 4*7C' .'' . ,&' (&/7-'0/' # ' /' . ,&9&*/' .09&' */' *11&119&/.' , *5' 4&&/' &60&5' :)' 9' , ' +*25' , 01' 01' / ' 3' *' . ,&)*.&' :' */*/*1'+&)*7)&'+&)'5)-'7)'+'*/5' '*/*1'+&.' 3&.' 7)'+'*/5' -0& 51' *4' 2.' 2+&&1' $;;' , &' %' ' 91' ')' A011'-&1' +*-' /' . ,0/(' . '' %' 6&)/9&/.' /' . ,&' 1.)&/(. ,' ' :' *' +)' 7*9*.0' /' 0112&5' 0/' "# *.' . ,&' 0/1.*/7&' :' *+.*0/' D*&+, &)1' /' . ,*.' . ,&' F' %' 6&)/9&/.' 5' &1' /' .' 0/.&/5' &0. ,&)' /' 3' ')' , &)&*:.&)' .'' 0 9+' 1&' .*H' ' /' . ,&' ,0 ')*7&1]' , &' &55*' */5' *)*C09&5-' D* 0*, 1' *)&' /' .'+*).' ':' . ,&' +&)9*/&/.-@1&.. &5' &1.*.&1' ':' . ,&1&' _&90/5*))0&1' 4&0' (' , &' 5' 2/5&)' 1+&70*' 12///5

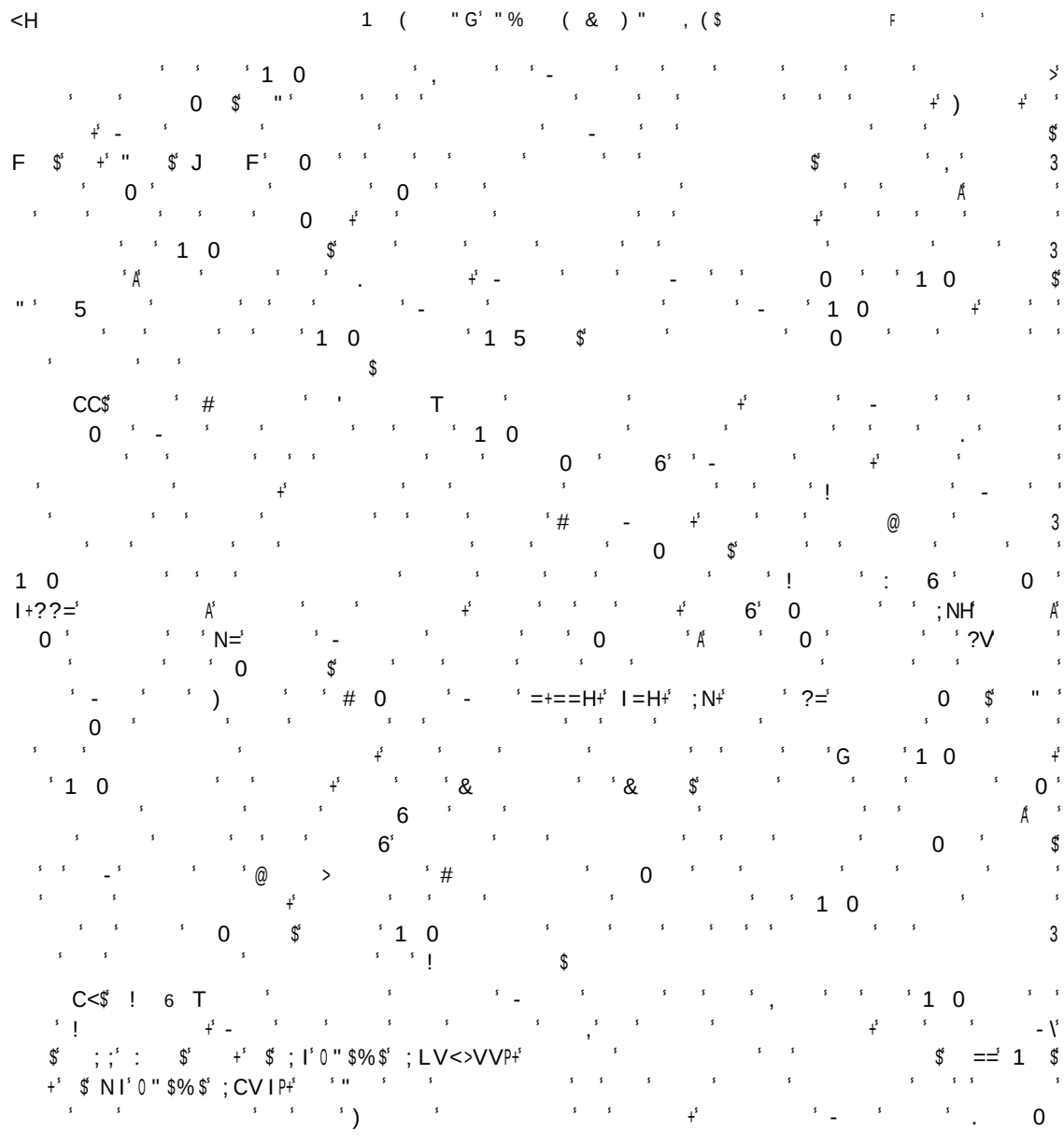


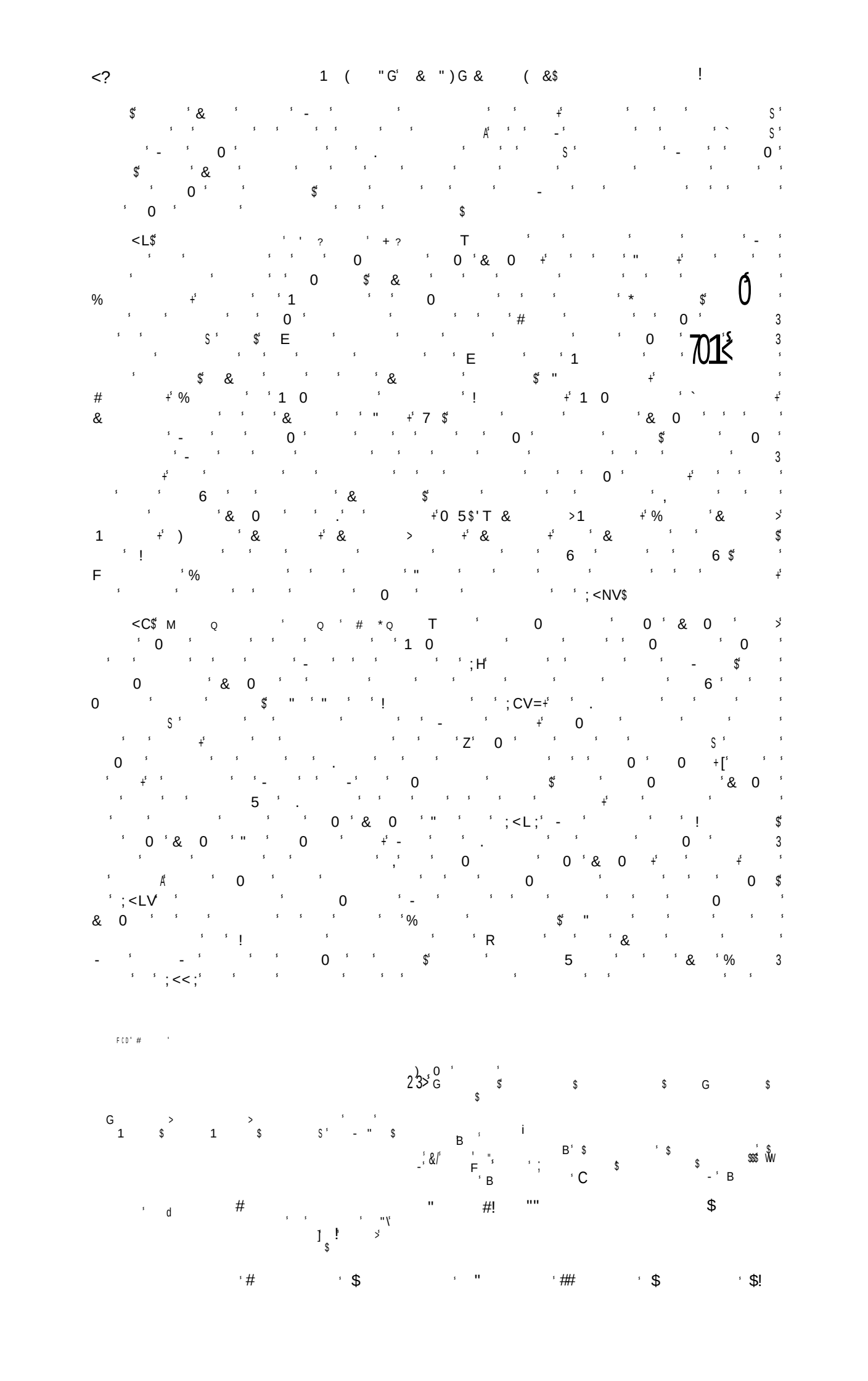


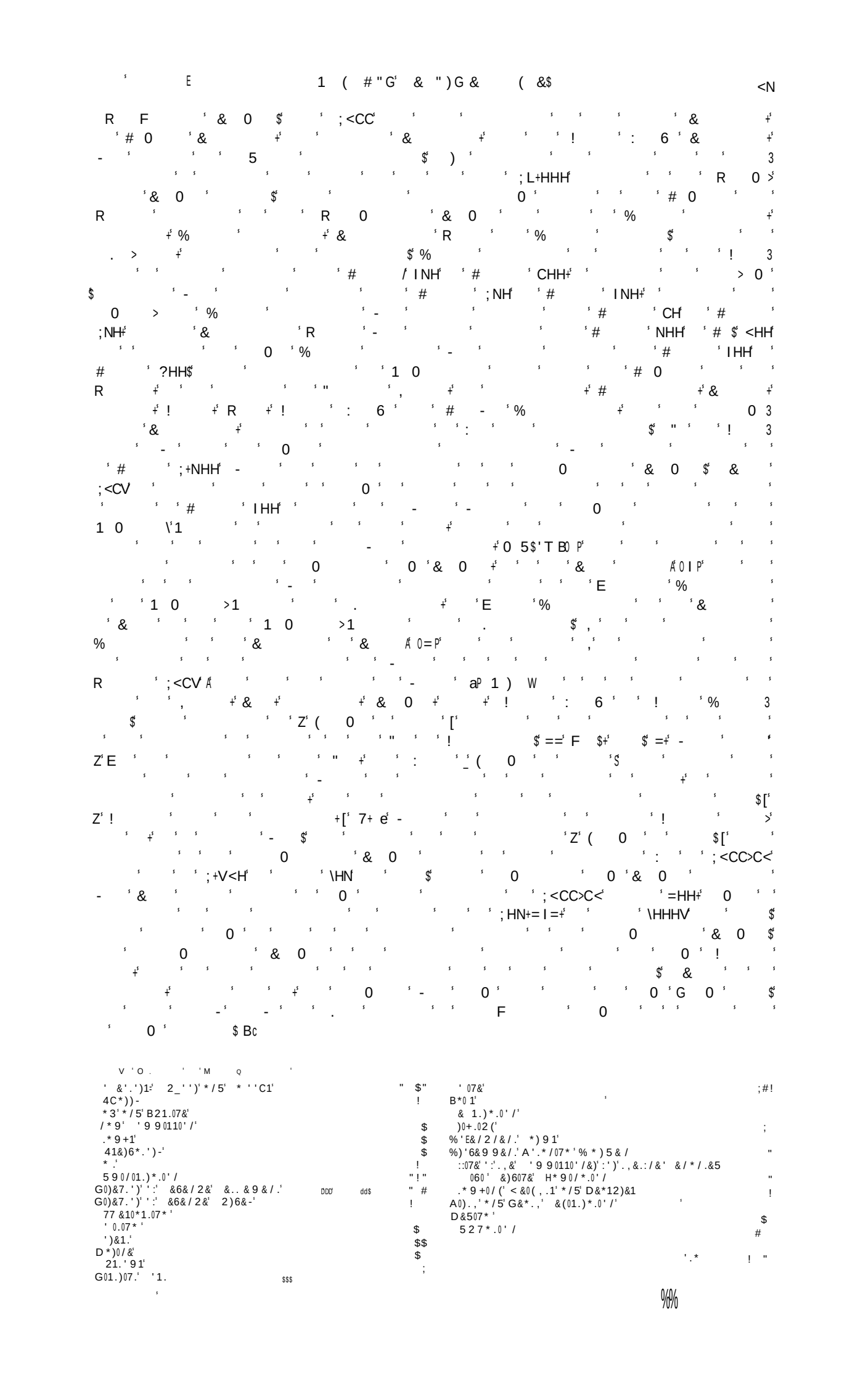


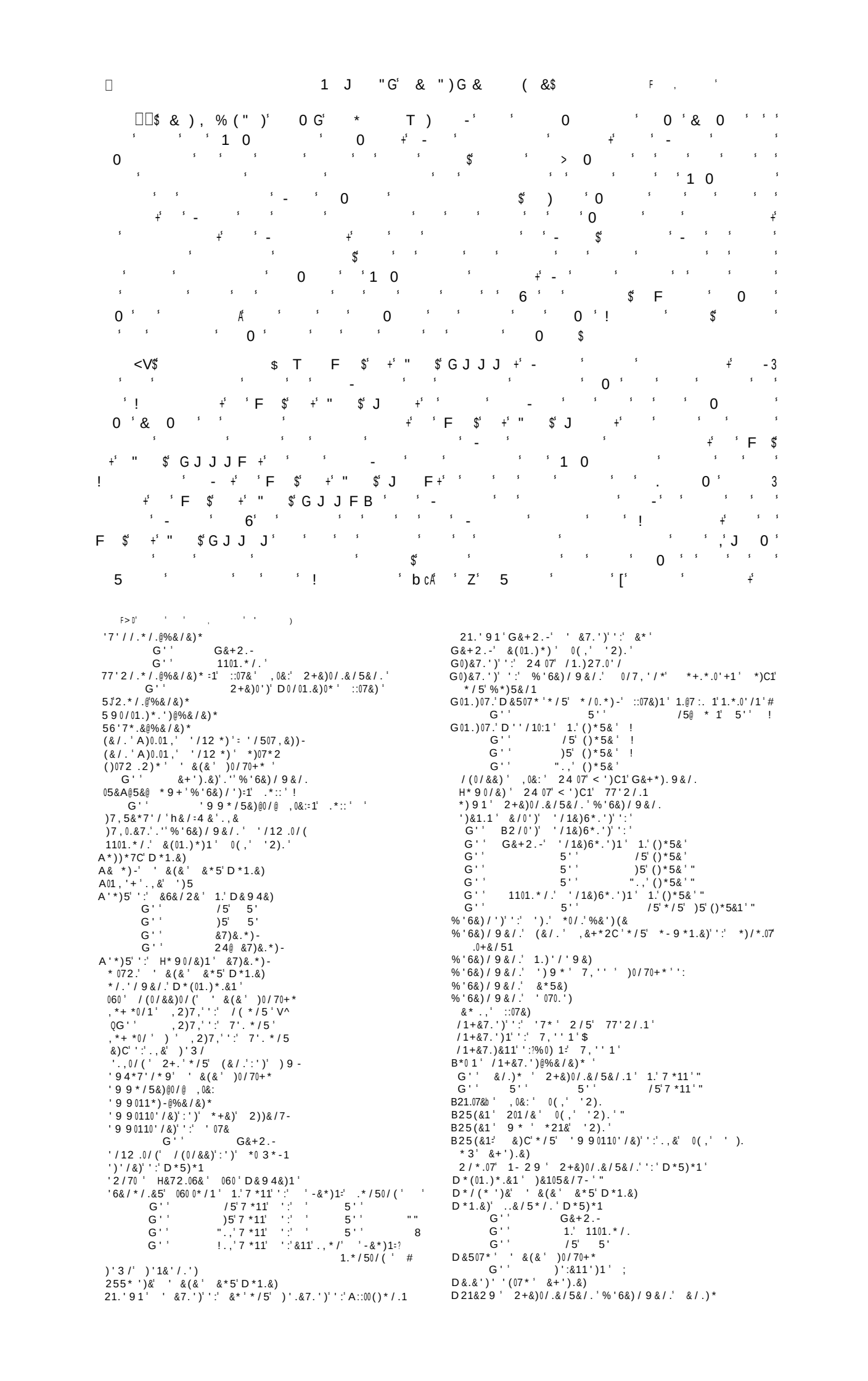


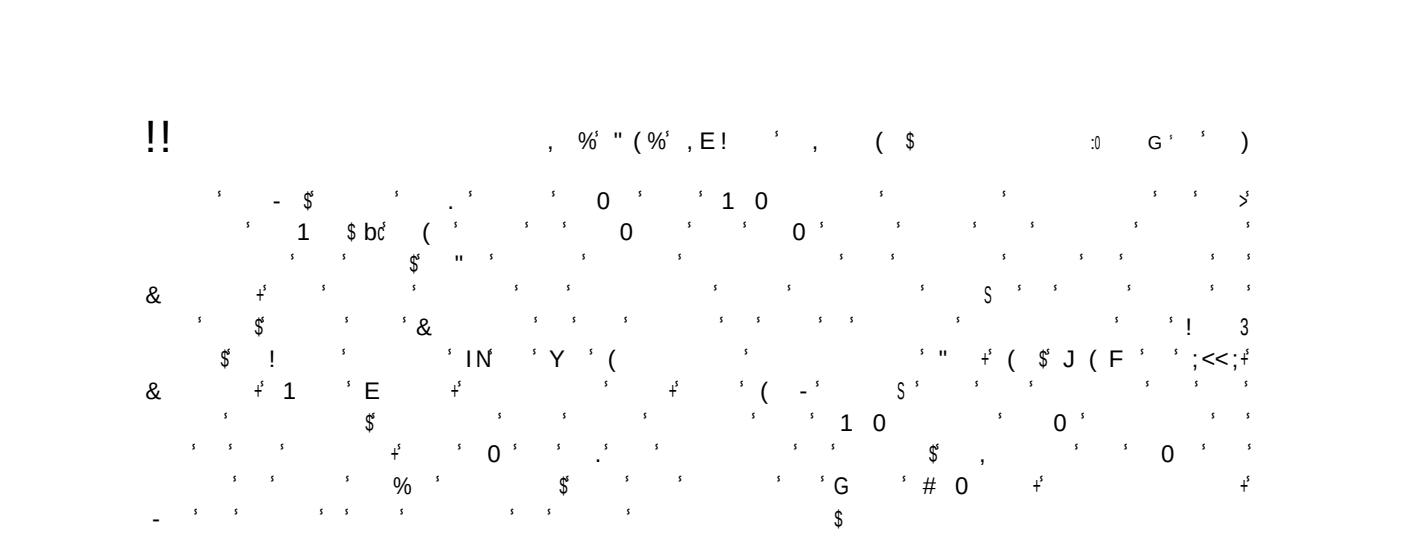


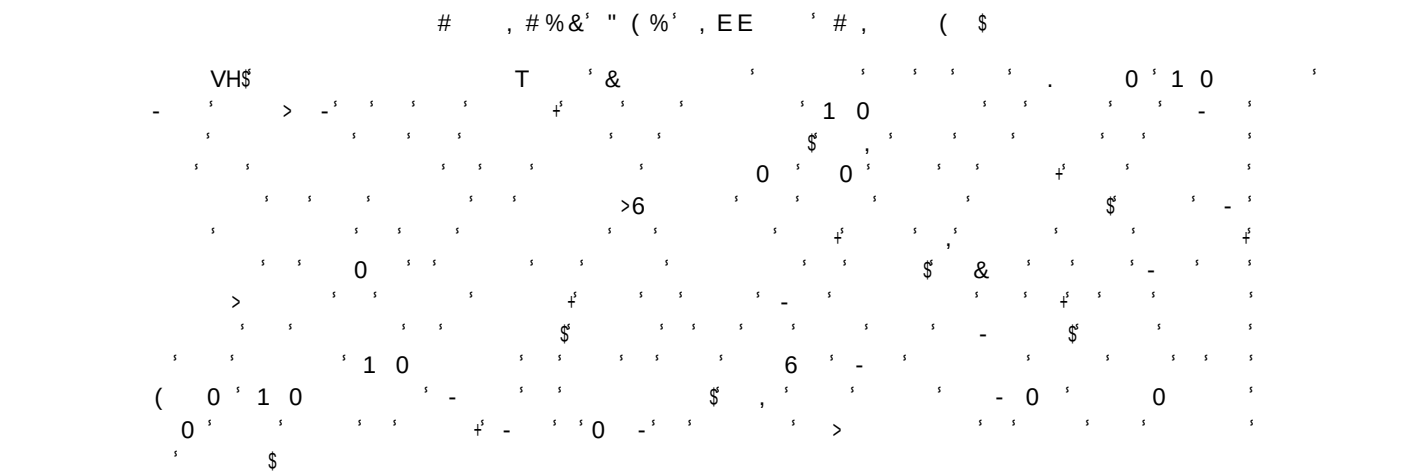


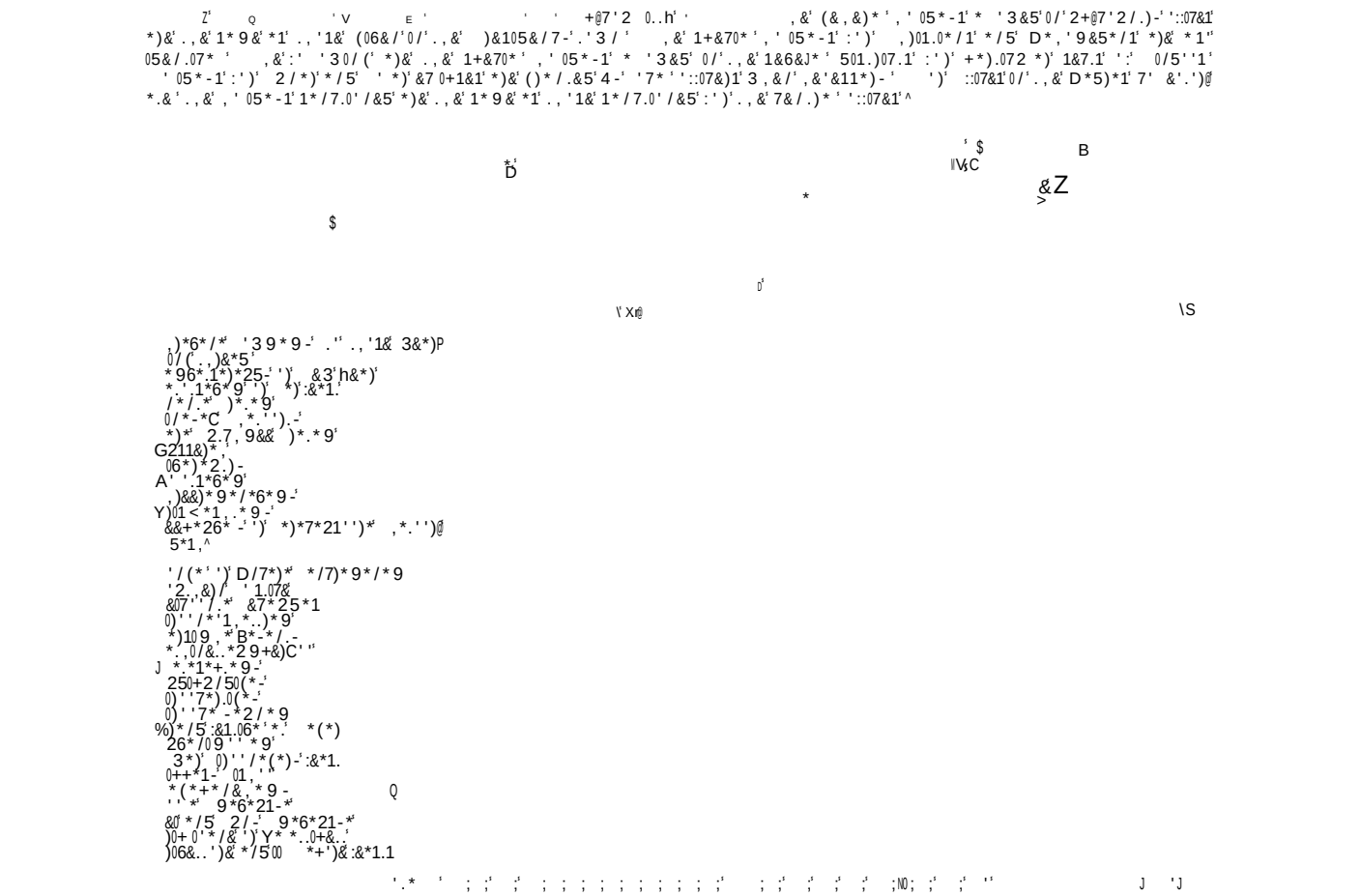


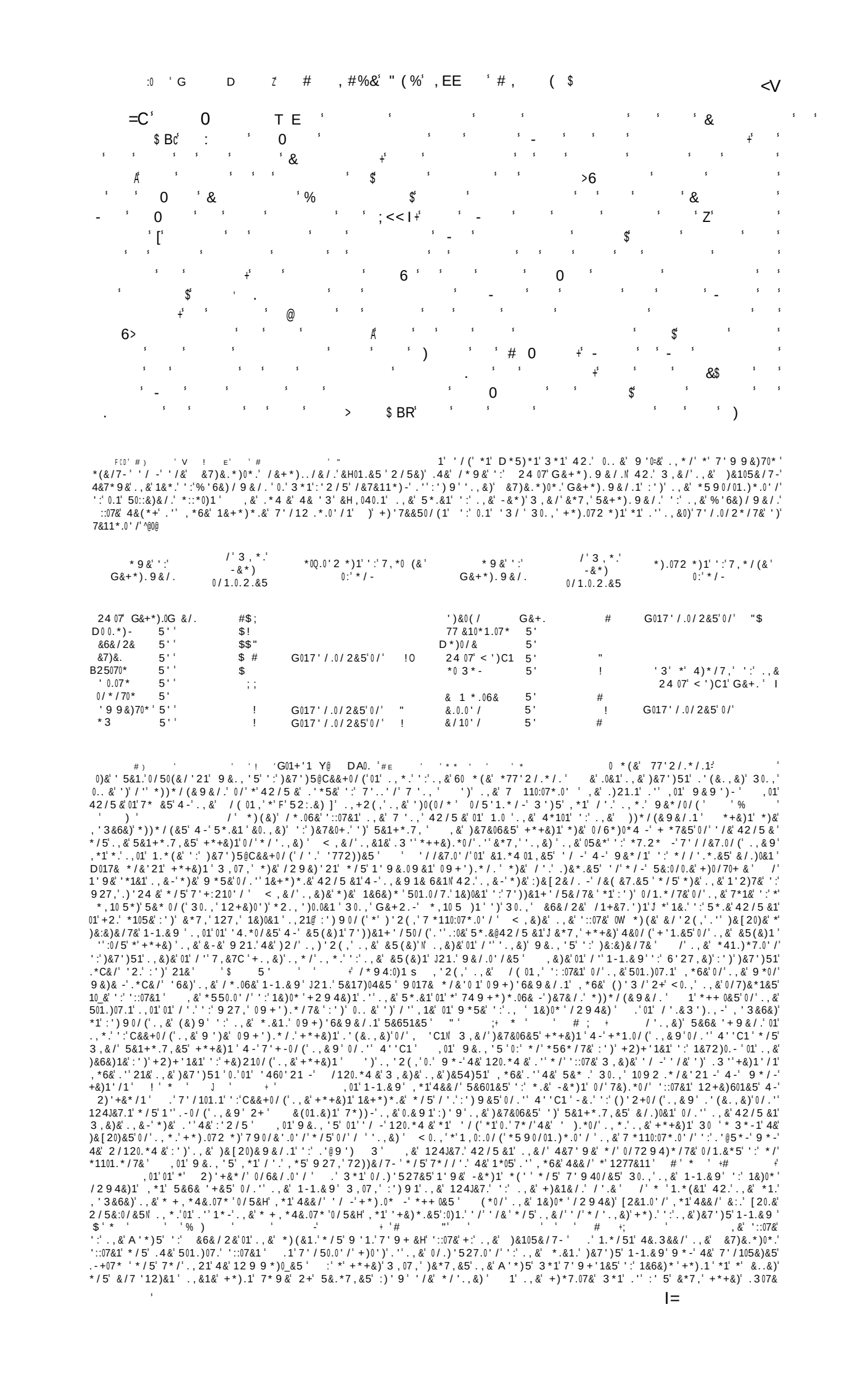


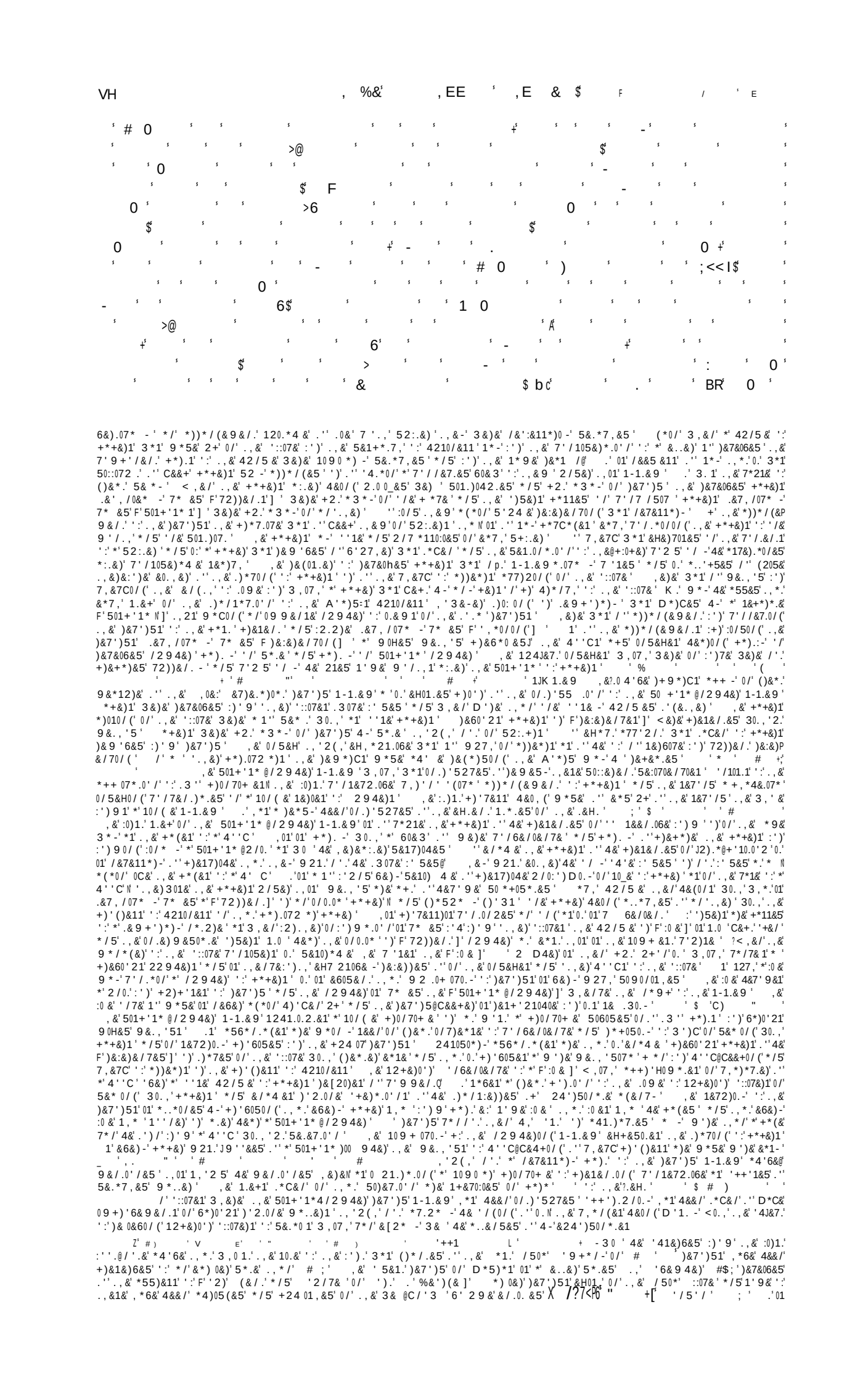


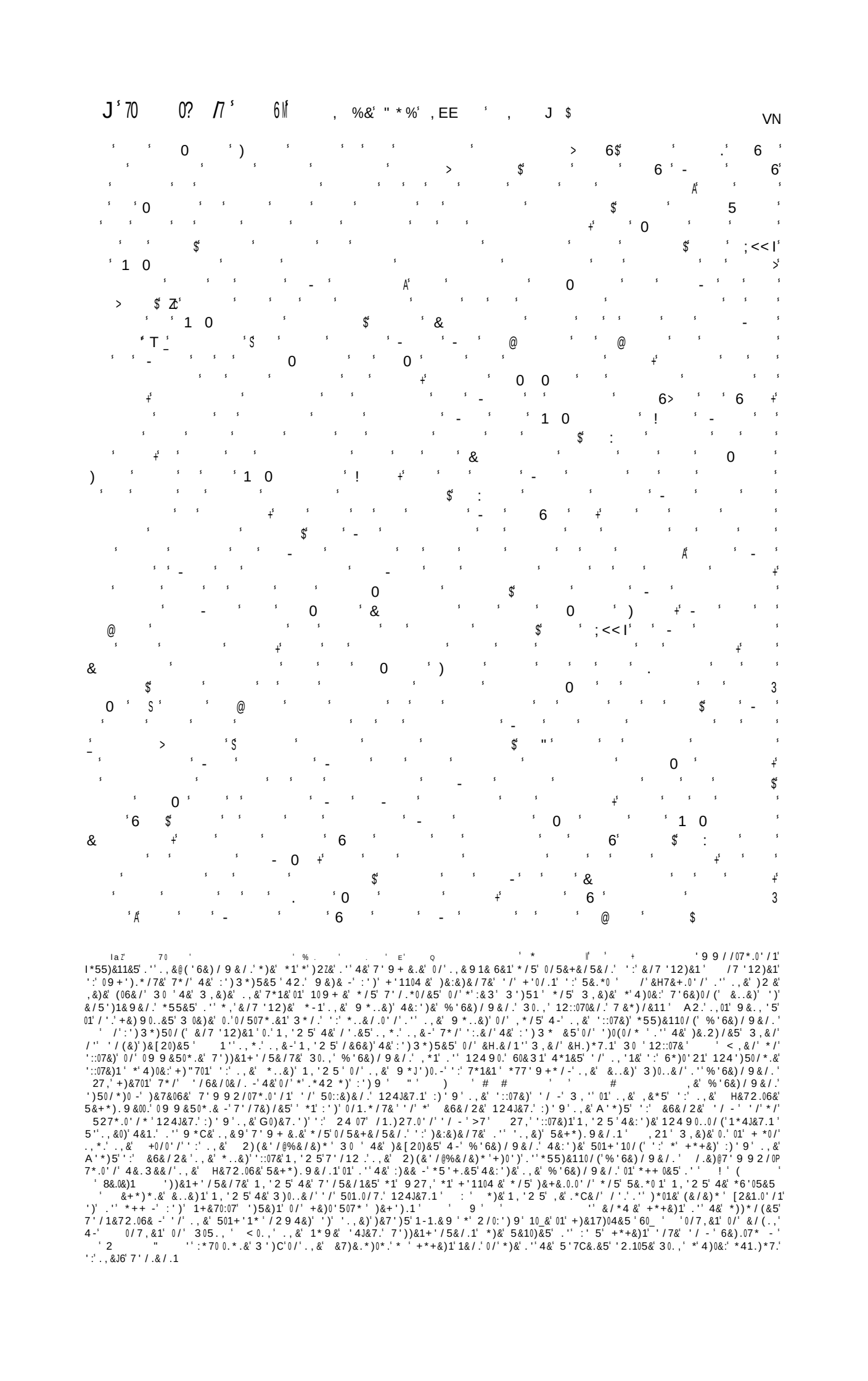


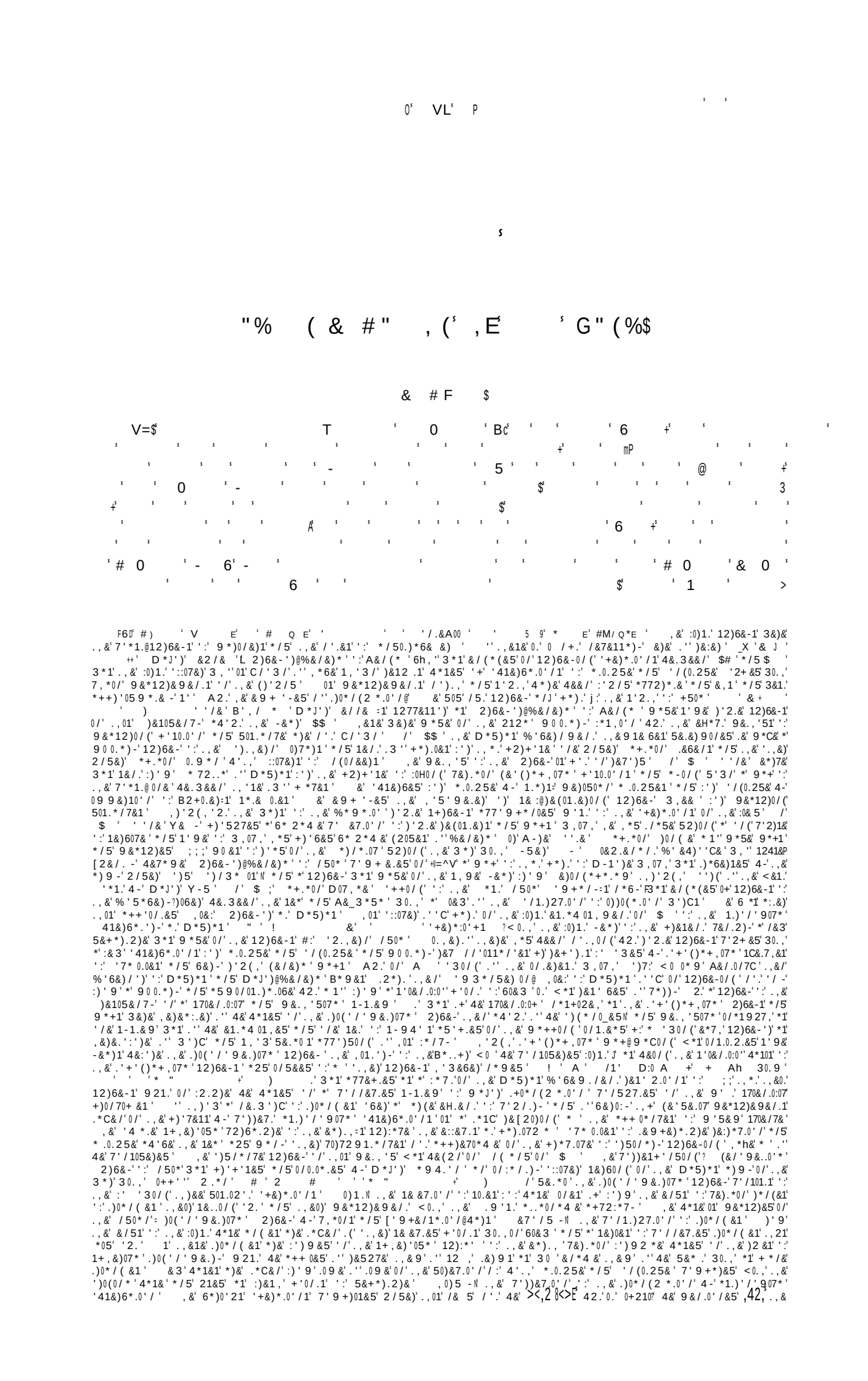


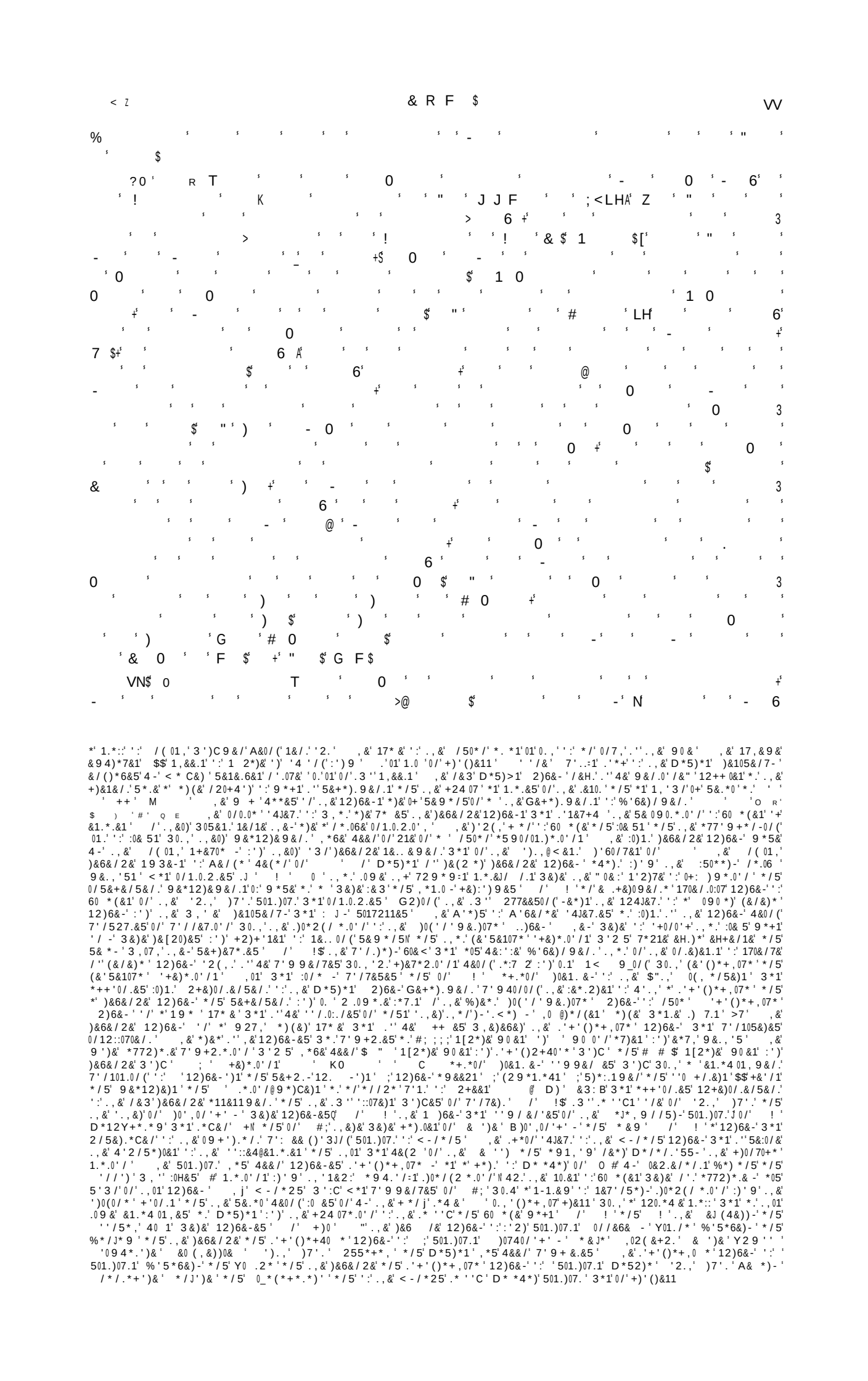


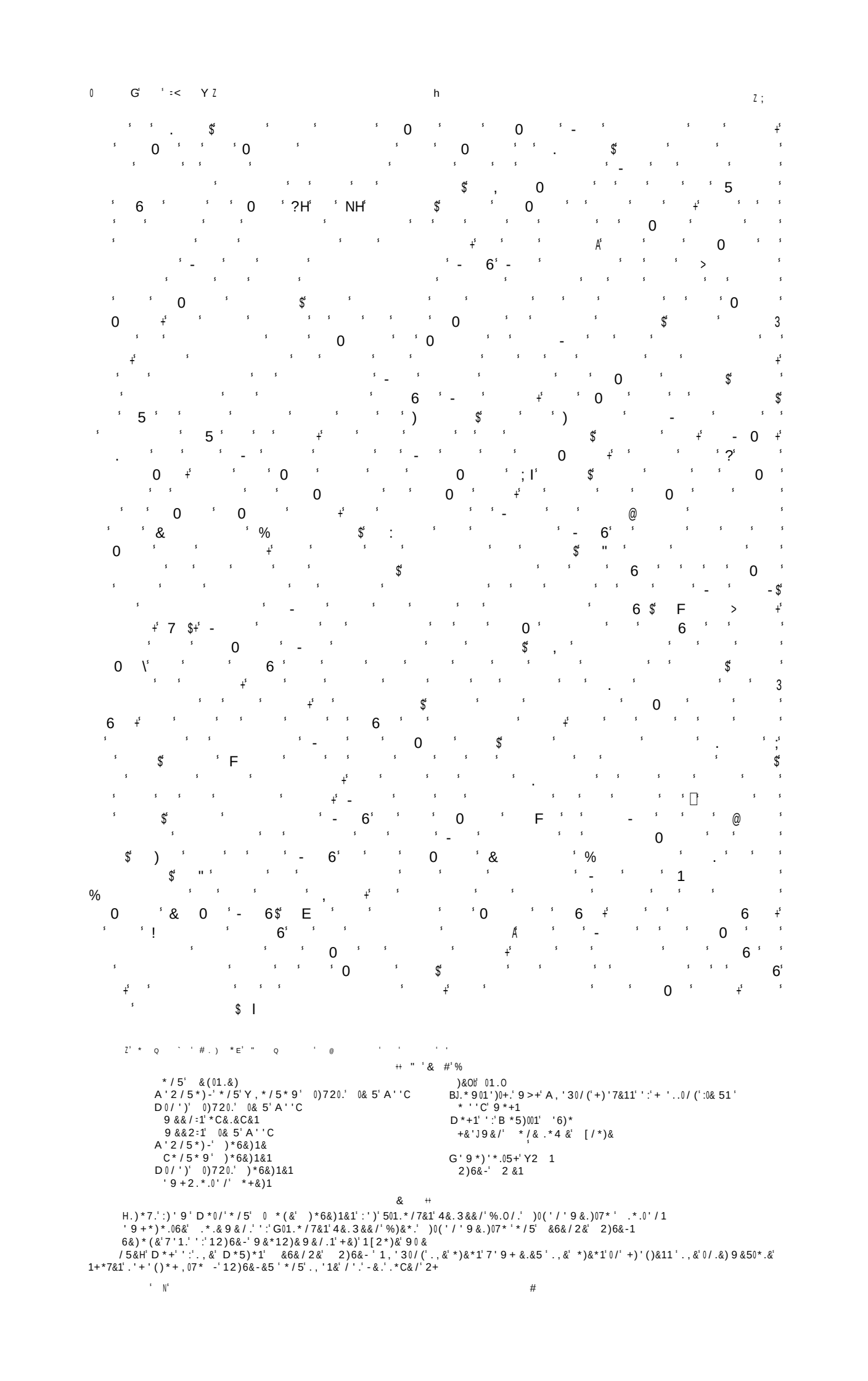


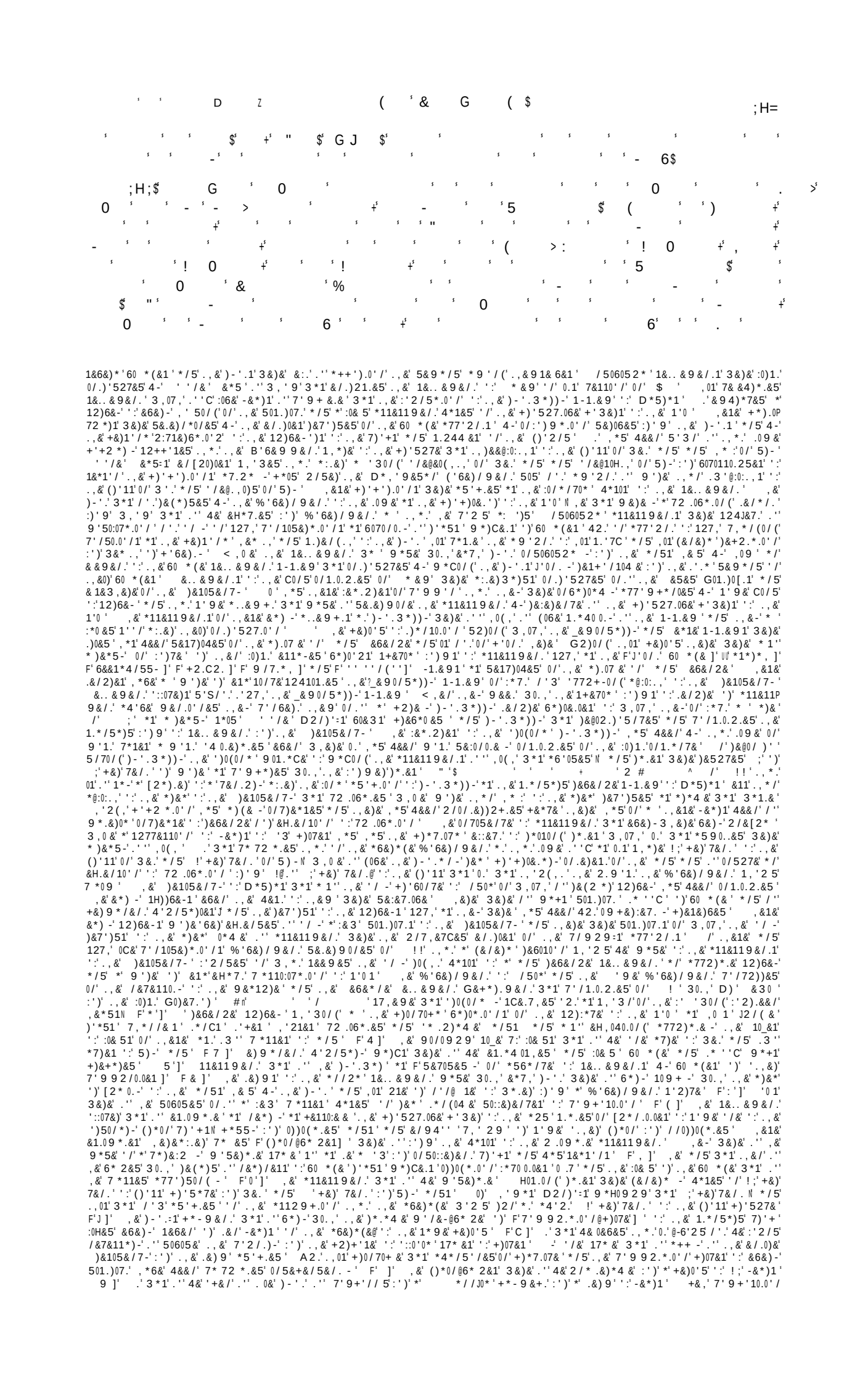


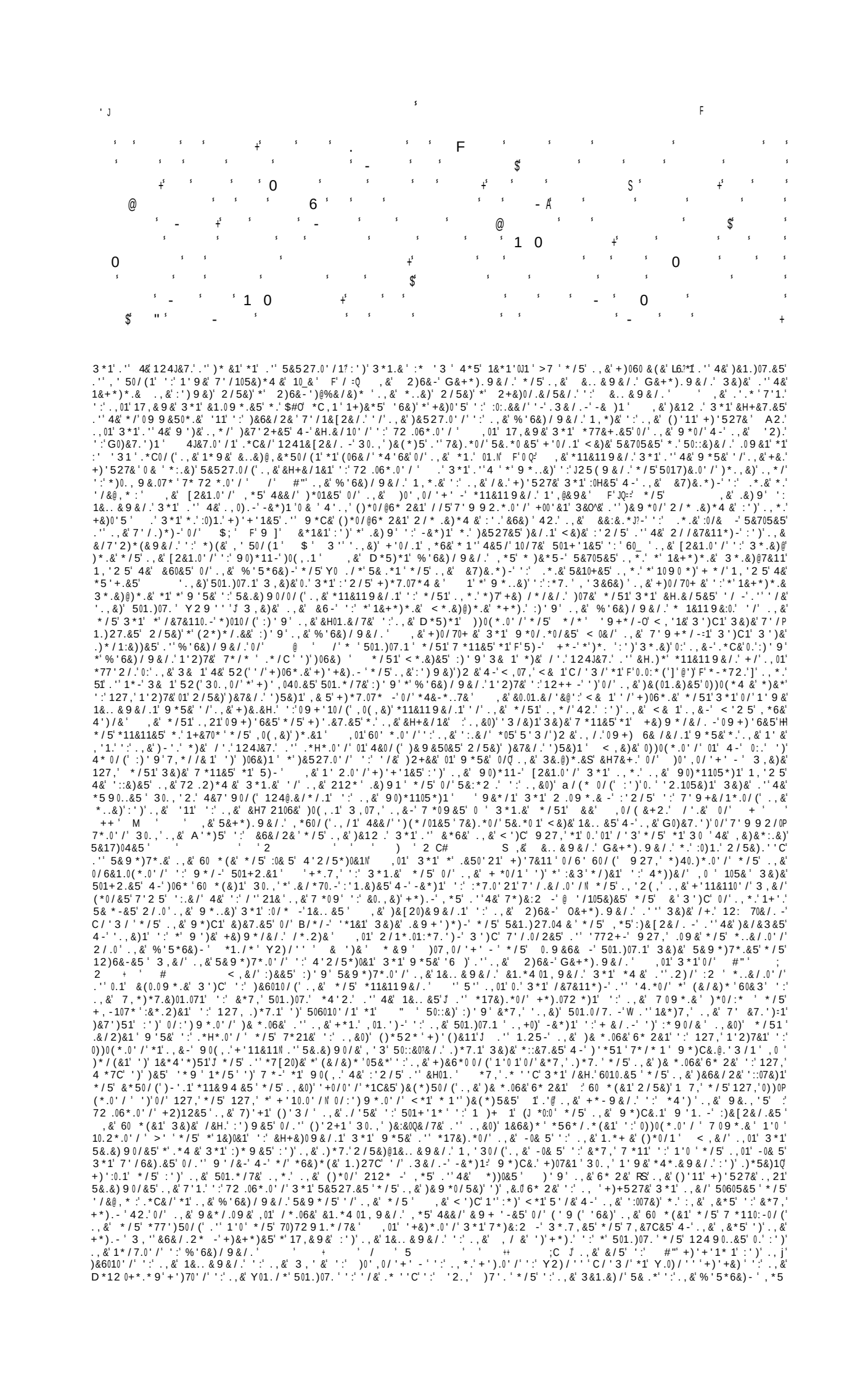


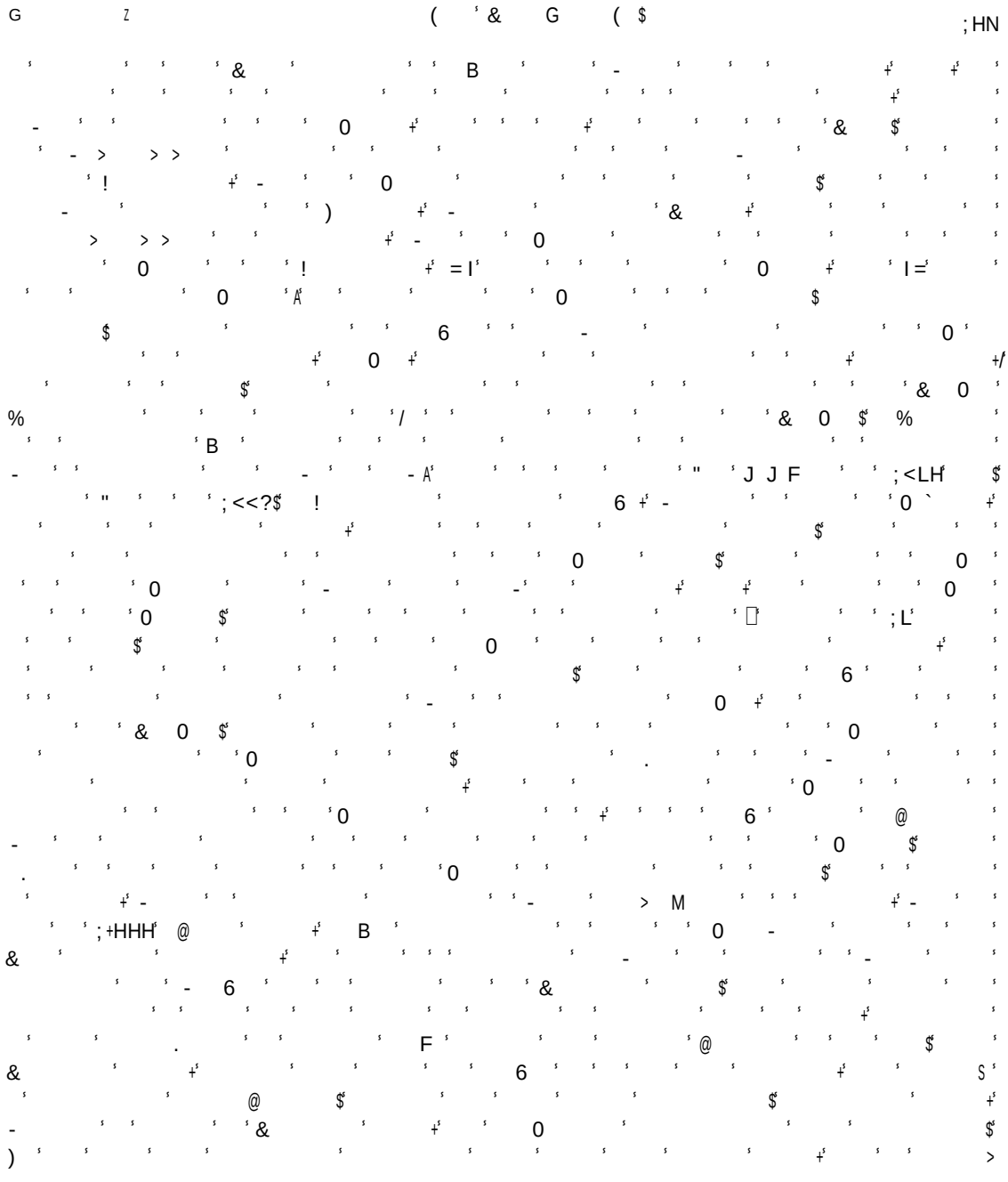


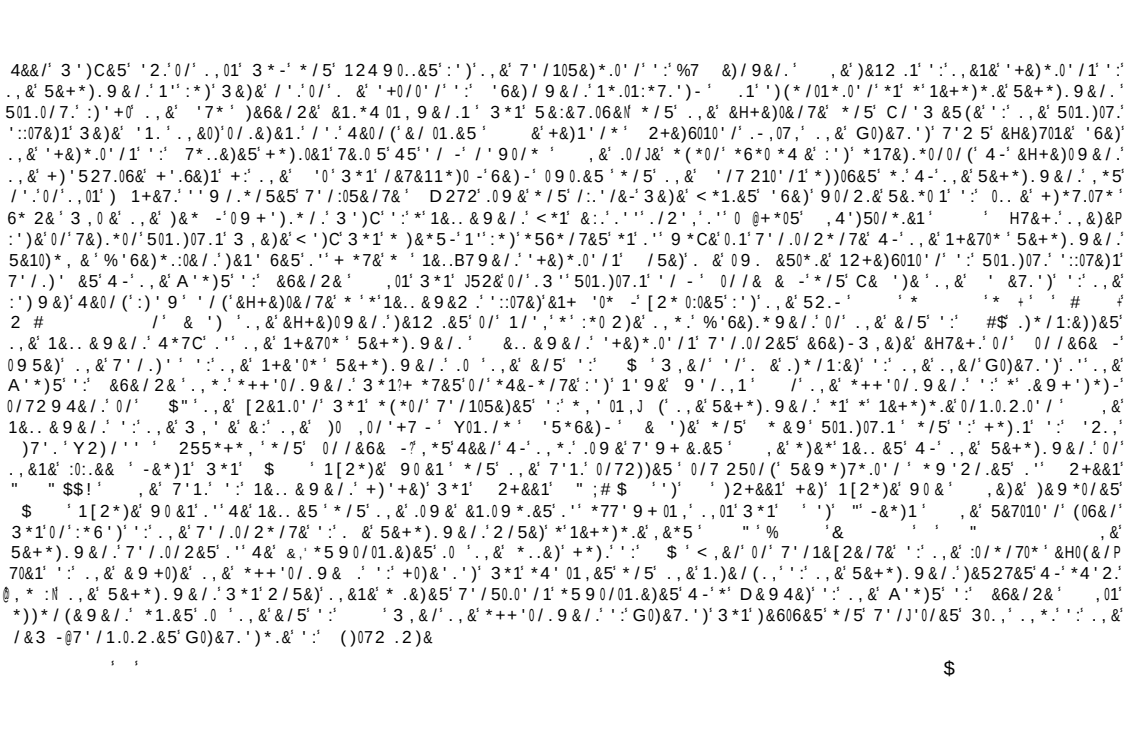


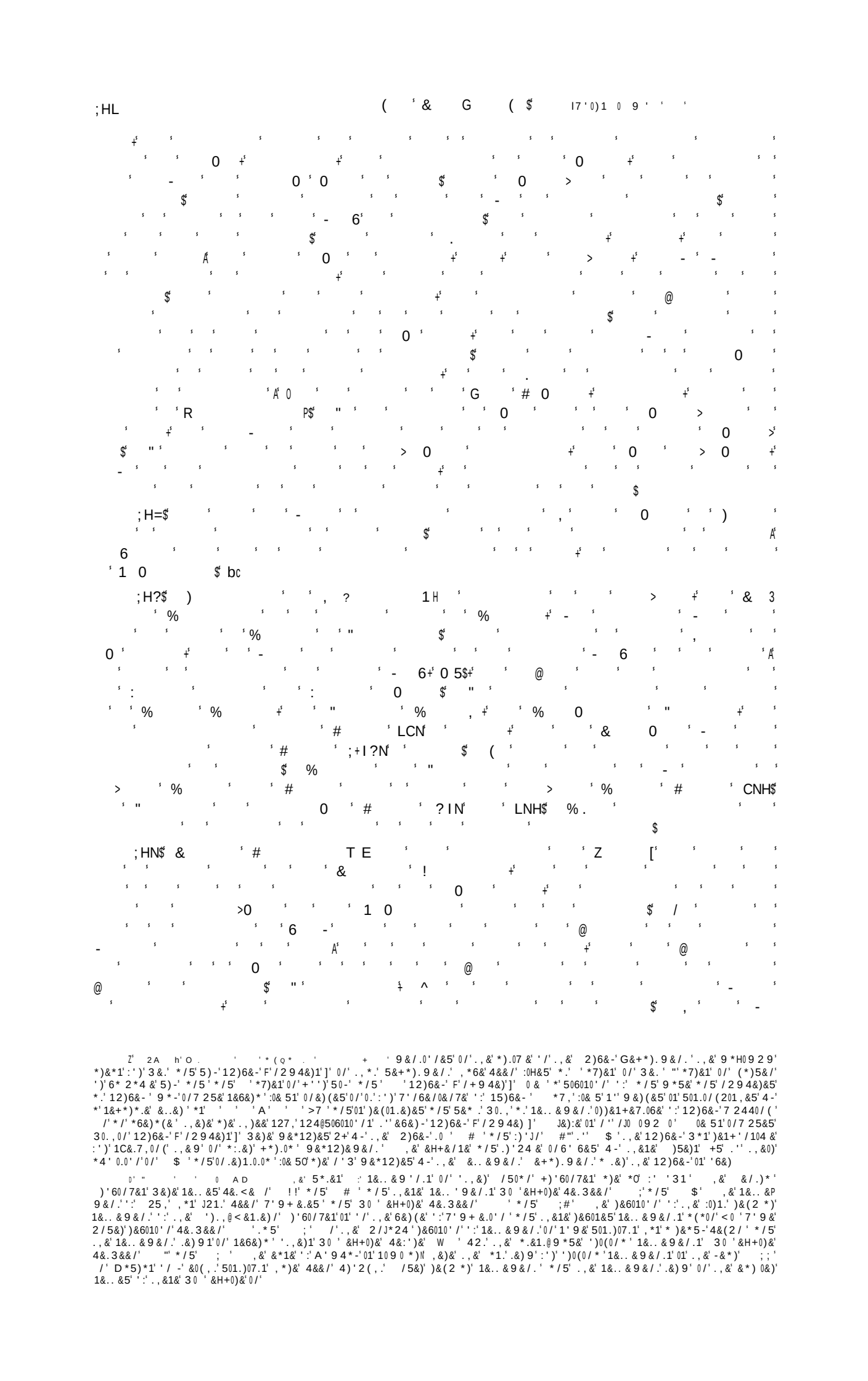


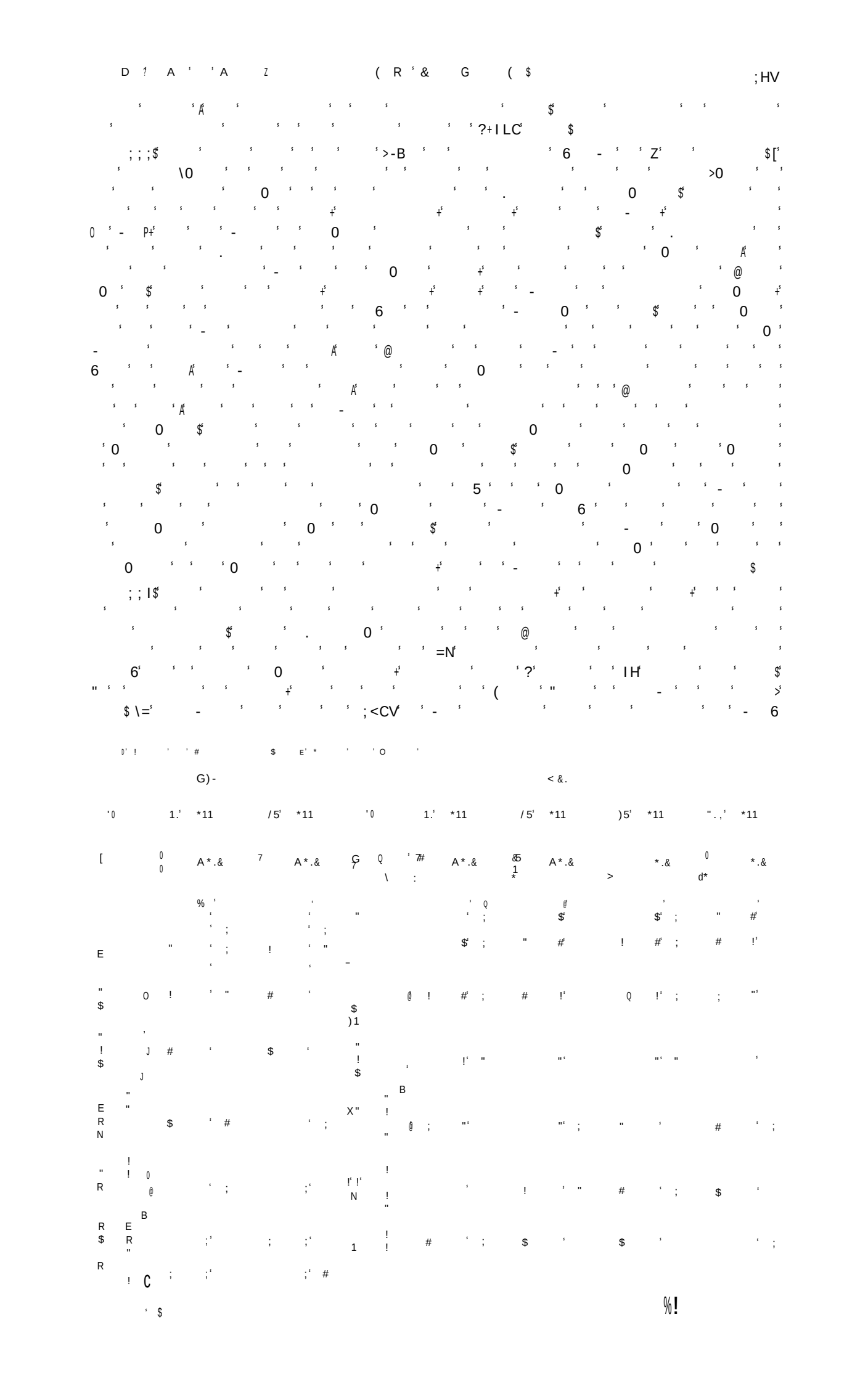


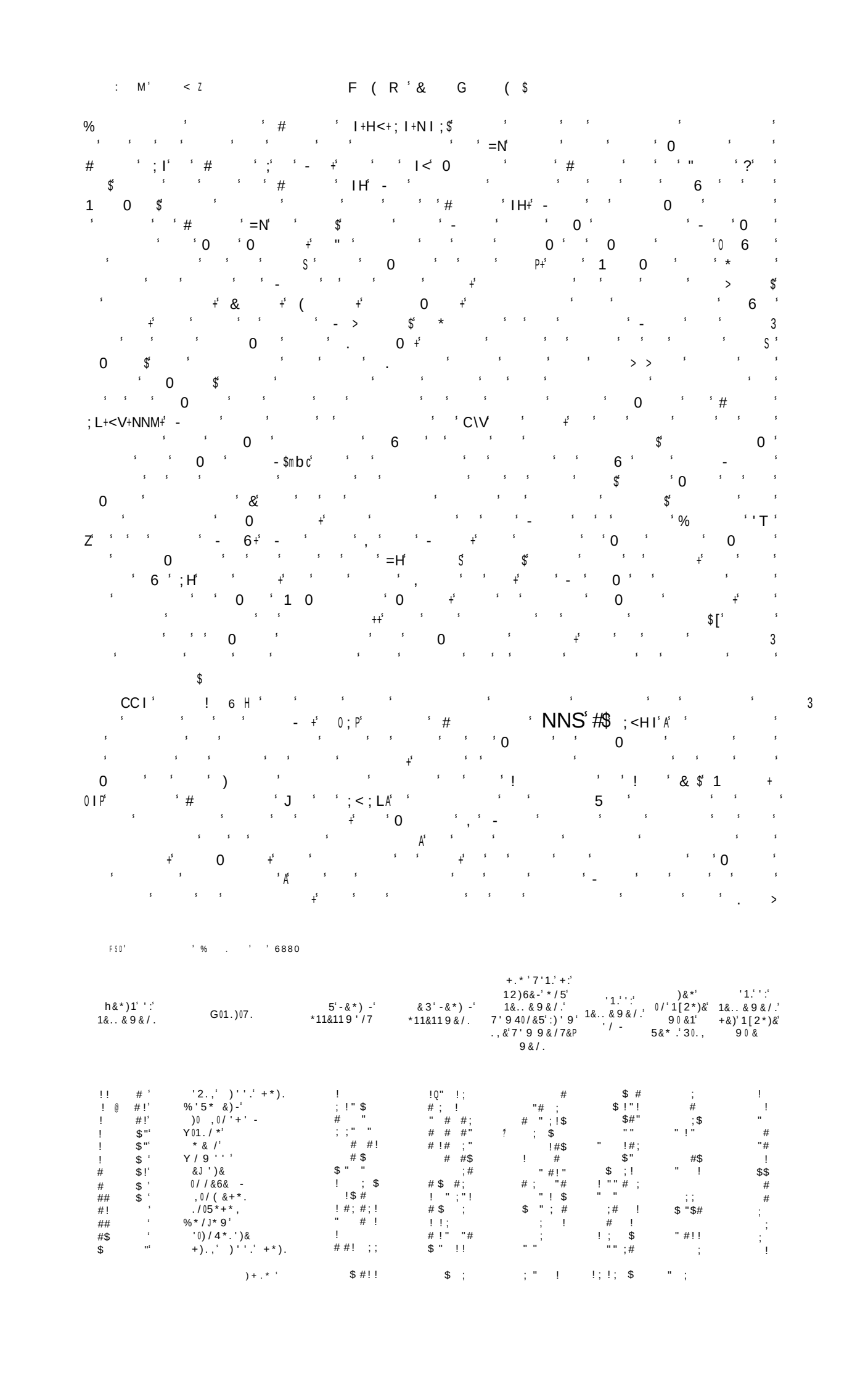


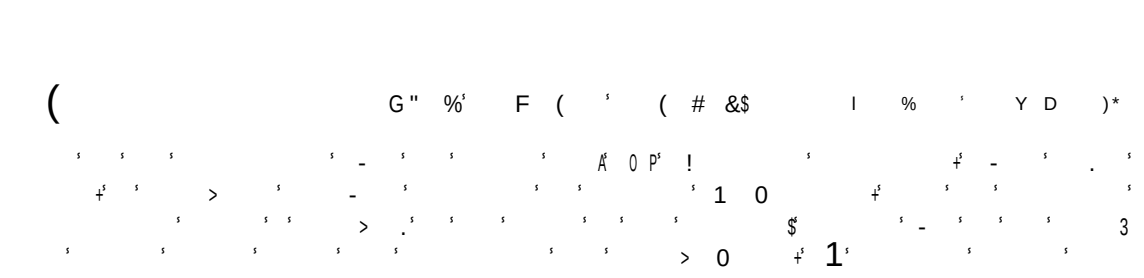












L3,07,' .,&-' ,& 5' .,&0)' +)'+&).-' ' + ' ' = " ,&' 7'2/.)-')'2/5' D*5)*1'C/'3/'*1' 4&'B*(,&&)' ,*5'4&&/' '4.*0/&5':)' 9'.,&' *@3*,' ':')7'.'+*). -'0/' $!;'*/5'+*). -'0/' $# '0/') (&.2)/':')' 1&)607&1')&/5&)&5'.\'., *.' .*.&' ,&',01.')-' ':'0.1'1&.. &9&/.'*.',&'+&)0'5'/'3'2/&)1.'0/.&)&1.'0/*1927,'*1'0.'1,':)1'J'0/.@' 60 *(&'1&.. &9&/.1'9*5&'*1' *.&'*1'.,&' &/5' ':' .,&' *1.'7&/.2)-'*/5' '/-'12+&)1&5&5'4-'.,&':')704 &'09+'10.0'/' ':' .,&' J0&)9*/&/.'1&.. &9&/.' ,&'B*(,&&)'3*1'+*7&5'0/' $ "'0/'.,&',*/51' ':' D)' 0'/&' *7&'*/5'0.'01'.'' .,01'(&/.&9*/' .,*.' 3&' *)&' 0/5&4.&5':')' .,&' :0)1.' 7'))&7.' 0/:')9*.0'/'*1' .'' */5&5' .&/2)&1'0/' '2.,&)/' /50*' .,&' 60 *(&1'0+'.,&' B*(,&&)'3&)&'5017'6&)&5'4-'D)' *7&'.'' 4&' ':' .,&'7*11')&*5-'5&17)04&5' *1'5&9'7)*.07'')' D0)*1 -' ,&' 60 *(&1'.,*.' 01'.'' 1*-' 3&)&'7')+')*.&'4'50&1'L30.,'*/'0/.&)/*'92/070+*'7'/1.0.2.0'/' */5'?30.,'.,&' */5'.,&'+)'+&).-'':'.,&'7')+')*P .0'/' ,&' */5'3*1' 124@50605&5'0/.'' 1,*)&1'3,07,'3&)&'1*&*4&'*/5'1.0')&.*0/&5'*'.,&'6*2&':')&*')'+&).-' /' &*7,'60 *(&'.,&)&'3&)&'4&105&1'.,&'7')+')*.&'9&94&)1'72.06*.')1',' 50/('*1'.&/*/.1'':'.,&'7')+')*.0'/'*/5',*60/('/' .,&0)'105&'+)&17)0+.06&')0(,.1'*77')50/('.'' */70&/.'*()&&9&/.1' (*0/'.,&)&'3*1'*'.,0)5'7*11'72.06*.0/(':')9'-&*)'.'' -&*)'L30.,'2.'.,&)'+)060&(&1'.,*/'.,*.'':'5'0/('1'' ,&'501.0/7.0'/'4&.3&&/'.,&'1,*)&,'5&)'*/5'.,&'./*./'7'/101.&5' 0/'.,&':*7.',*.',&' *..&)'7'2 5'/'.'1& ',01')0(,.1'':'772+*/7-'/')'&/J'-'*/-'':'.,&'6*)0'21'09 909 0.0&1'*/5'*56*/.*(&1' 4& '/(0/('.'' .,&':')9&)'*1' *'9&94&)'':'.,&'7')+')*.0'/' D)' *7&'0/'9*C0/('.01'1&.. &9&/.1'5&+.'30.,'.,&'3,'&' 7'9 9 2/0.0&1'*/5'/'.'30.,'*/-'+*).072*)'0/506052*'*/5'&:.'0/.'',&'60 *(&)1'.''+24 07'*27.0'/'*1'11&11'.,&9 1& 6&1'025 9 52*-' A*7,' I60 *(&'7,'1&'0.1'3/')&+)&1&/.*.06&*')')&+)&1&/.*.06&1',&)&'01'&6&)-')&*1'/'.''12++'1&'.,*.',&'J'0/.'60 *(&'1&.. &P 9&/.1':' D)' *7&'3'2 5',*6&+)'6&5'1277&11:2' ,&-'3&)&'/'.'* '3&5',3&6&)'&6&/'*':&3'-&*)1:.)0* '.0/5&)'.,&' ')5&)1'':'.,&' '2).''G0)&7.')1',&'B*(,&&)'3*1'+&)9*/&/.-'1&.. &5'0/' ; '.,&' */51'4&0/('50605&5'0/.''1JH.-@'/&' &1.*.&1'4&*)0/(''*/'*11&119&/.':' :)'9'$;;;'.'' $!;;')2+&&1'*/5'+2.'2+'.''+24 07'*27.0'/'*1'D''.*,1' ')'+)'+)0&*)-' &1.*.&1' "' @ ' ' '* <,01.',&1&'9&*12)&1':')'.,&'1&.. &9&/.'':'.,&'9')&*/70&/.'.&))0.')0&1' '.'.,&' '9+*/-'3&)&'0/'+)'()&11'/&3'.&))0.')0&1'3&)&'4&0/('*55&5'.''.,&')&105&/7-'*/5'.,&'[2&1.0'/'':'*/5@*11&11P 9&/.'7*9&'2+'*(*0/':')'50172110'/'0/'7'//&7.0'/'L30.,'.,&'+*).1':'.,&'7'2/.)-'7&5&5'.''.,&' /(01,'0/'.,&'1'2.,' /' $ '.,&':0)1.'3*)30.,' 0++''*7&5'*'7'/105&)*4&'.)*7.':'7'2/.)-'7'9+)010/(',&'A*)*9*,*2''')' *+9'*1'0.'01',' 3'7* &5'G0/50((''*/5'D*4*)'0/'.,&',*/51'':'.,&' /(01,' ,&'1&7'/5'3*)'30.,' 0++''*55&5' */*)*'*/5' '094*.')&' 77')50/(''*'.)&*.-'9*5&'30.,'.,&' 0_*9''' -5&)*4*5'0/' ;;',&'3,'&'.&))0.')-' -0/('1'2.,'':'.,&' ''/(*425)*' */5''':'.,&'Y01./*')06&)'*:.&)'0.1'J2/7.0'/'30.,'.,&':')9&)'3*1'7&5&5'0/'+&)+&.20.-'7'/1.0.2.0/('3,*'/*)&'/'3'7* &5'.,&' &5&5'G01.)07.1' /' ;'*'.,&'+'11&110'/1':'.,&'D*3*4''':')7'.'0/'.,&' *)/*.07'3&)&'9*5&'6&)'.[' .,&A)0.01,'.,21' 7*))-0/('.,&0)'+'11&110'/1'5'3/.''' *+&' '9')0/' ! 2 + "'+ ' ' + " /'.,&'*/5'.,0:.1'/&3-'*7[20)&5'.,&' 1*9&501.0/7.0'/'3*1':'2/50/'.,&' ').,&)/' 0)'*)1' ,*.':1'.''1*-'.,&)'3&)&'*251',' 50/('50) '.':)'9'% 6&9 9&2.' */5'*/51',' 50/(',)'2(,'0/.&)9&50*)-'7,0&:1' ,&'*..&)'3&/.'0/'.,&'1'2.,'4-'.,&'/ 9&'':' '0(*)1' ,&-'9*-'4''7 *11&5'2/5&)'.,)&&',&*51'*1 1.'5&17&/5*/.1''':'.,&')'-*':*900&1':' 0J0*/2((&)' '/J&&6&)*9'*/5'D 052)*№ /5'.,&' 900.*)-':&25*'7,0&:.*0/1''':'.,'1&' 1'6&)&0(/.0&1'3,'' ,*5' &101.&5'.,&' 7'/[2&1.'':'.,&'D*, 9&5*/1'*/5',*5'&0.,&)')&.*0/&5'4-':')'7&'')'.,)'2(,'0/52 (&/7&'*/5'.'&)*/7&'.,&'&1.*.&1'3,07,'.,&-',*5'&/J'-&5' /5&)'.,&0)'*/70&/.'('6&)/P 9&/.1'№)5'501.)07.'7' &7.')1'3,'',*5'7'/.)06&5'.''&25&'.,&'09 9&50*.&'7'/.)'':'.,&'D*,'9&5*/1'*/5'L<,'',*5' ()*52* -'212)+&5'.,&'1'6&)&0(/.-'':'.,&'501.)07.1' ,&1&'501.0/7.0'/1'3&)&'/'.')&7'(/01&5'4-'.,&'D*,'9&5*/1' ' .,&' '0(*)1'3&)&'9*5&'.''+*-'.)042.&'*/5'/'.'*77')50/('.''*/-':0H&5'+)0/70+&'42.''77')50/('.''.,&'+'3&)'':'.,&'('6&)/9&/.'.''&/:')7&'0.' ,&'9*/*(&9&/.'':'.,&0)'7,0&:1,0+1'*/5'.,&'7'/.)'''':'.4&0)'124J&7.1'3&)&'&:.'&/.0)&-'.'' .,&' '0(*)1№42.',&-'3&)&'*9'1.'*3*-1'*.'3*)'30.,'.,&0)'/&0(,4'2)1'')'0/')&6'.'*(*:/1.'.,&'.*.&' <,&/&6&)'.,&' &H*7.0'/1'':'.,&'D*,'9&5*/1'3&)&'7'/105&)&5'&H')40.*/.'.,&-'3&)&')&101.&5'*/5'&6&/'0:'.,&'52&1'3&)&'&6&/.2*-' +*05'.,&' '0(*)'.''C'.,&'&*)0&1.''++')2/0.-'':')&09 42)10/(',091&:*/5'':'.*C0/(')&6&/(&'4-'*/'*..*7C'/'.,&' 60 *(&1',' 50/('50)&7.'':'.,&'%'6&)/9&/.' /'9*/-'7*1&1'.,&'%'6&)/9&/.')-'.1'3&)&'40(&5'.'' '/+)'901&'30.,'.,&' 0/6*5&)1'4-'*()&&0/(''.''+*-'1.0+2*.&5'*9'2/.'5&/'90/*.&5'7*26*''')'+)'.&7.0'/&9''/&-' ,01'3* '0/':*7.''*'129'+*05' .''''/&' '0(*)'.''0/527&',09'.''(06&'+)'.&7.0'/'*(*0/1.',&'&/7)'*7,9& .'':'.,&)1' .0/5&)'.,&'1-1.&9*.07'7'/.)''':'.,&' A)0.01,'%'6&)/9&/.'0.'3*1',0(,-'/&7&11*)-'.''7,&7C'.,&'2/4)05 &5'7'/527.':'.,&' '0(*)1'42.',*60/('/''C/ 3&5(&':' .,&0)'.)2&')0(,.1'.,&'%'6&)/9&/.'3&)&'/'.'*3*-1'1277&11:2'0/' 5&*0/('30.,'.,&9' &)9*/&/.'1&.. &9&/.1'3,07,'&:.' *4'2.'.3'.,0)51')'9')&'':'.,&0)'&1.0 9*.&5')&6&/2&'3&)&'9*5&'0/'.,&' ,0..')&' **..-' &/7*.*(.&0)-'*/5'A'9)*2_' '*91№*/5'9'1.'':'.,'1&'7,0&:.*0/1')'.,&0)'5&17&/5*/.1'1.0'.&.*0/'.,&0)',&)&50.*)-'&1.*.&1' /'.,W1'2.,&)/'+*).':' .,&'*92'7'2/.)-'.,&)&'3&)&'.,0).-@.,)&&' '0(*)1':')'.,&')&*0.*.0 ':'3,'1&'.)042.&'0.'<*1':'2/5'/&7&11*)-'.''*++'0/.' *'1&+*)*.&' 2)'+&*/' '&7.')' ,&1&' '0(*)1':'2(,'5&1+&)*.&-':[)'3,*.',&-'['/7&0&5'.''4&'.,&0)')0(,.1'*/5'.,&0)')&527.0'/':')91'*'/'.&3')..-'0/705&/.'0/'.,&'900.*)-',01.')-':'.,&')&105&/7-' :'.,'1&'7,0&:1'3,'',*5',&5'.,&0)' +*.)09'/0*'&1.*.&1':')'1&6&)&'(&/&)*.0'/1'3&:0/5'0/'.,&'-&*)' ;'.,0).&&/''/-'1.0'0/' +'11&110'/3'.,&'*/51':' :'2).&&/''.,&)1'3&)&'2/5&)'7,*)(&':'.,&' 2)'+&*/' '&7.')'*/5'10H'3&)&':):&0.&5'(06&/'*3*-'')'1'5' /'.,&' 501.)07.1'7&5&5'4-'.,&'0_*9'0/' ;;'.,&)&'3&)&' 0(0.-'+'0(*)1' ,&1&'*1'')&101.&5'.,&'%'6&)/9&/.'*/5',*5'.'' 4&')&527&5'.''124J&7.0'/'4-':')7&':')91' /' ;$'.,&-'3)&':/2/5'.'',*6&'4&&/'.,21'501+'1&5':^ +&/10'/&5' ,'50/('*'B*(,&&)' ')&1050/(''/'.,&0)'&1.*.&1'5&+)06&5':'.*2.,')0.-' 9*/*(0/('.''.,&'1&.. &9&/.''':'.,&' */51',&5'4-' '0(*)1 L.,&':0)1.'7*1&'7* 0/(':')'1+&70*'/'.07&'0'.,*.':'.',&' '+&)*.0''/1'0/'A*2*9*,*2' ,'060/('.,&')01&'':'.,&')-'.3*))-'1-1.&9' /' $ '*'7'9 90110'/'3*1'*++'0/.&5'.'':'.,&'A*)*9*4*2'30.,' *+.*0/'A&*5'*.'0.1',&*5'*.+.*0/'A&*5'3*1'*1101.&5'4-'.,)&&'J2/0')'D00.*)-''::07&)1':*7&'5'%)*,*9'*/5'D2/)'*/5'4-'D)' [)501'*' 060 0*/' ,&'900.*)-'&H*7.0'/1'':' 0++''*)&'12++'1&5'.'',*6&'501')(*/0_&5'.,&'/*:2)*0 0:01.0.2.0'/1'':'.,&'7'2/.)-'*/5'.'' *6&'09+*0)&5'.,&'&::070&/7-':'.,&'60 *(&'7-':'.,&'60 *(&'01'9*-'4&'0.'01'7&).*0/'.,*.'.,&)&&0(''.,&'*..&/.0'/'')*.,&)'.,&'*..&/.0'/'')*.,&)'.''0/506052*1',*/'.''7'992/0.0&1' /'.,&' *,10J5*)1'':'.,&'+&)0'51'.,&-':'2/5'9&)&)&7&06&)1'':'.,&')&6&/2&'*/5'*1'.,&'05&*'':'5&*0/('30.,'60 *(&'7'992/0.0&1' :*1'/'.':*6')&5'.,&)&'3*1'/''*.&)/*.06&*42.'.''5&*'30.,'.,&'0/506052*'72.06*.')' '1-1.&9'':'0/506052*'1&.. &9&/.1'0/6'6&5'*'5&.*0&5'12) &-'':'.:0&51'*+5' .,01'3')C'3*1'*.'/7&2/5&)*C&/'3*1'*++)'6&5'0/'.,&')-'4-'.,&'G,&'.')1'0/' /(*/5'42.'0.'3*1'.)&*.&5'*1'g/'&H+&)00J/&/.*'9&*12)&'*/5'/''+)*7.07*'1.&+1'3&)&'.*C&/':')'7'/::090/('0.' /' $ '')5&)1'3&)&')&7&06&5'*'1'*'&*5-'9&/.0'/&5':')'*'+&)9*/&/.'8&901/5*))-' ')'D''.*,5*))-'1&..&9&/.',)'2(,'2.'D*5)*1' /'+2)12*/7&':'.,01'5&7)&&'.,&'A*)*9*,*2'3*1'50605&5'0/'.,&'-&*)1' ; ',"'*/5' ;!'0/.'' 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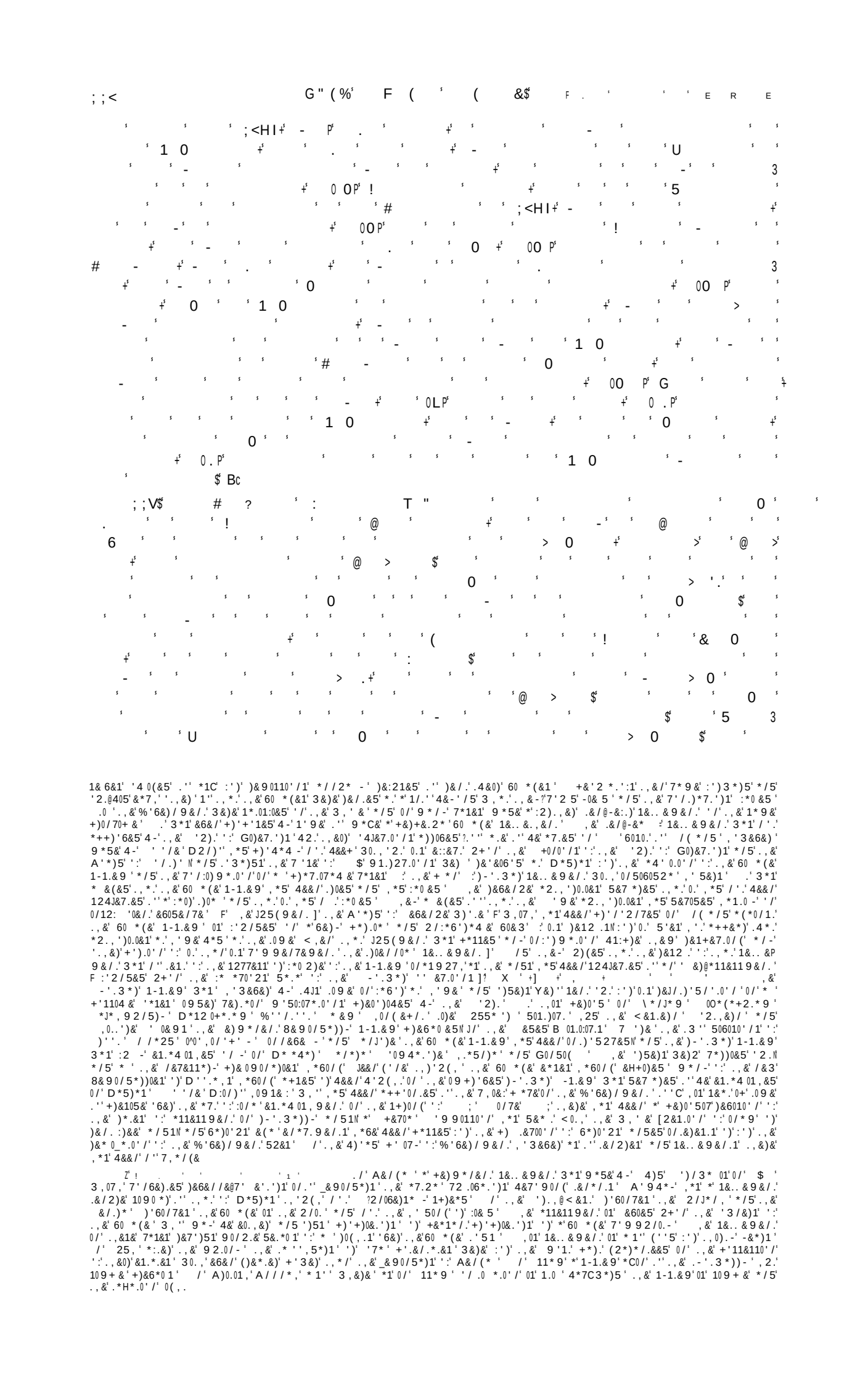

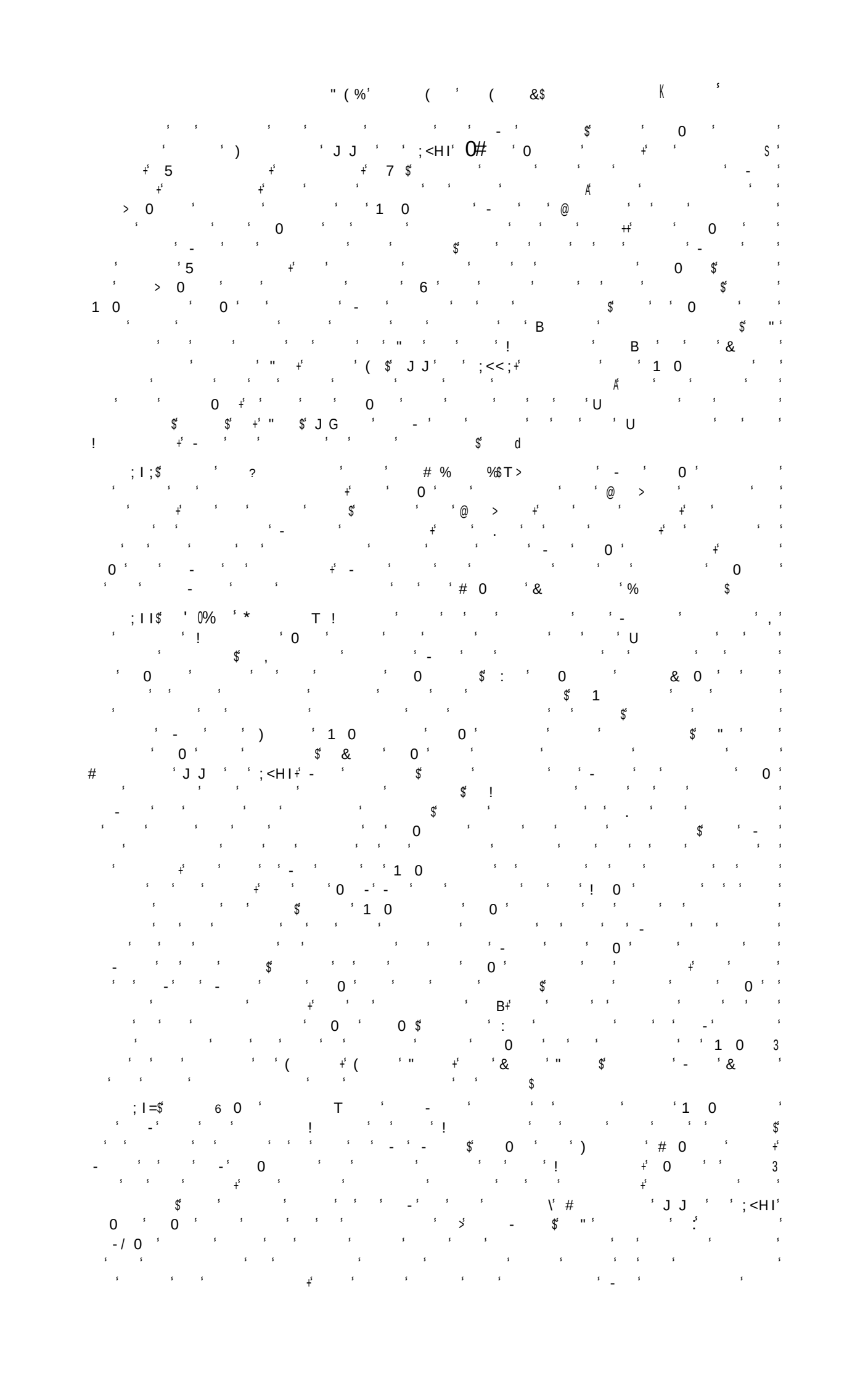

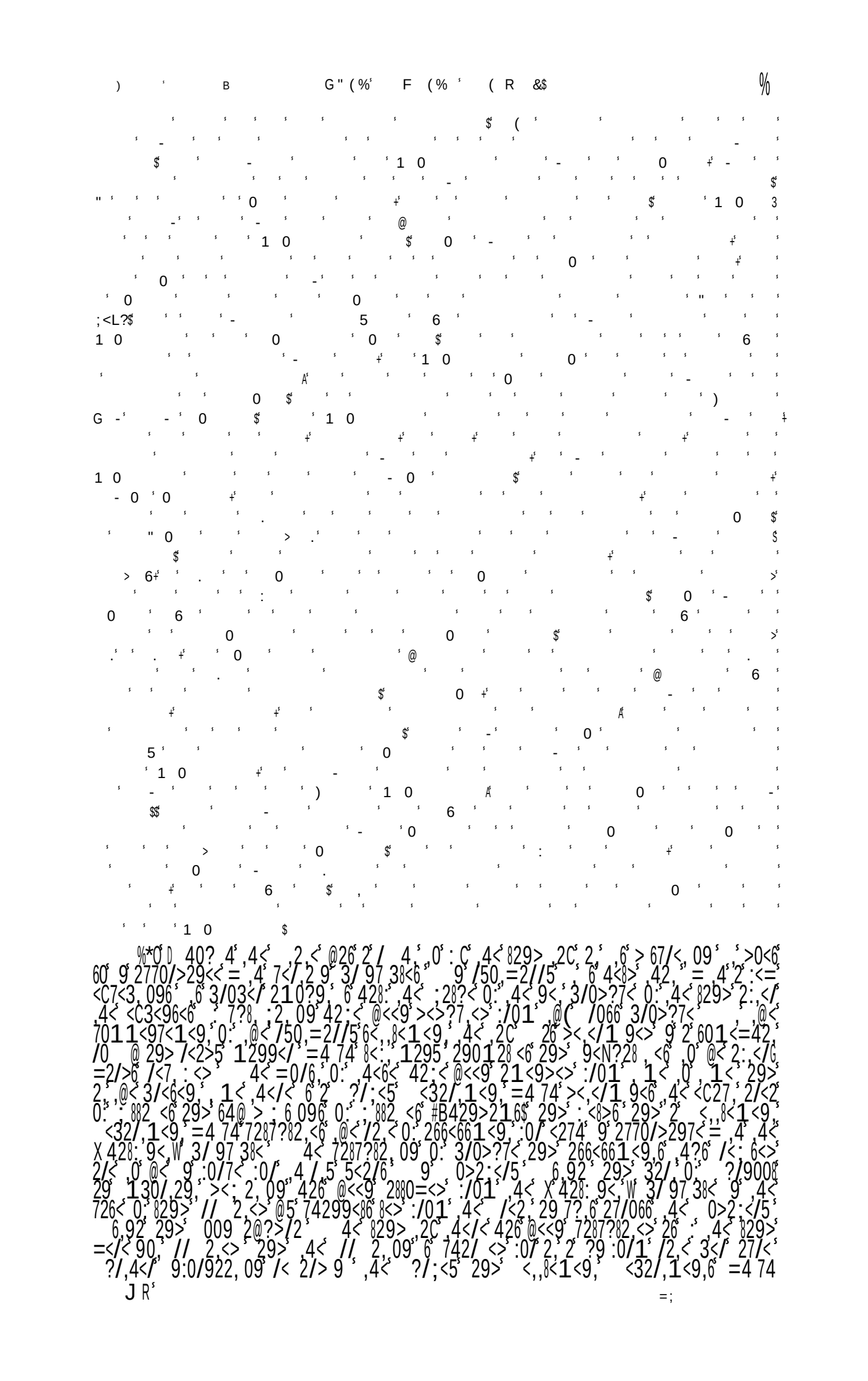

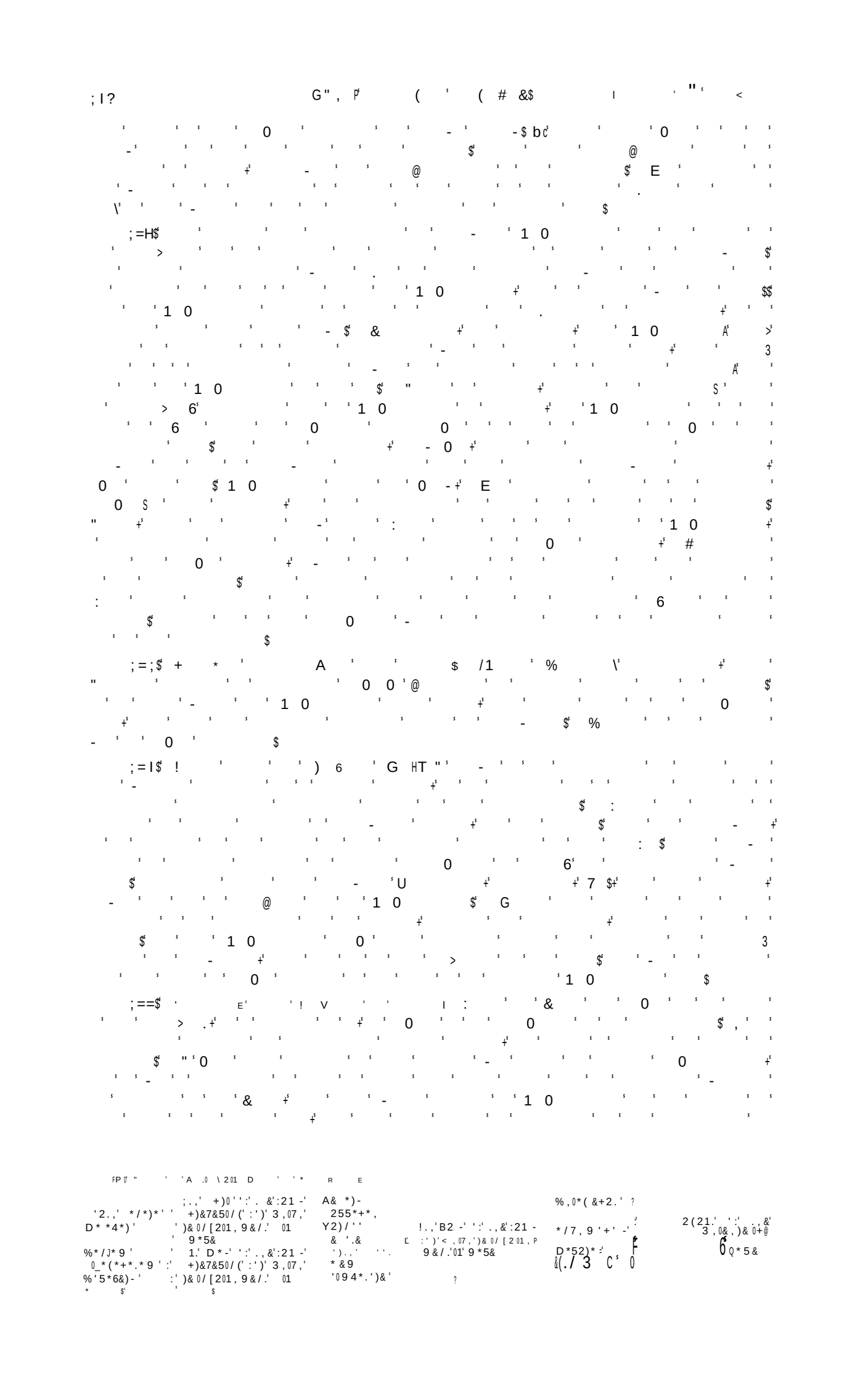

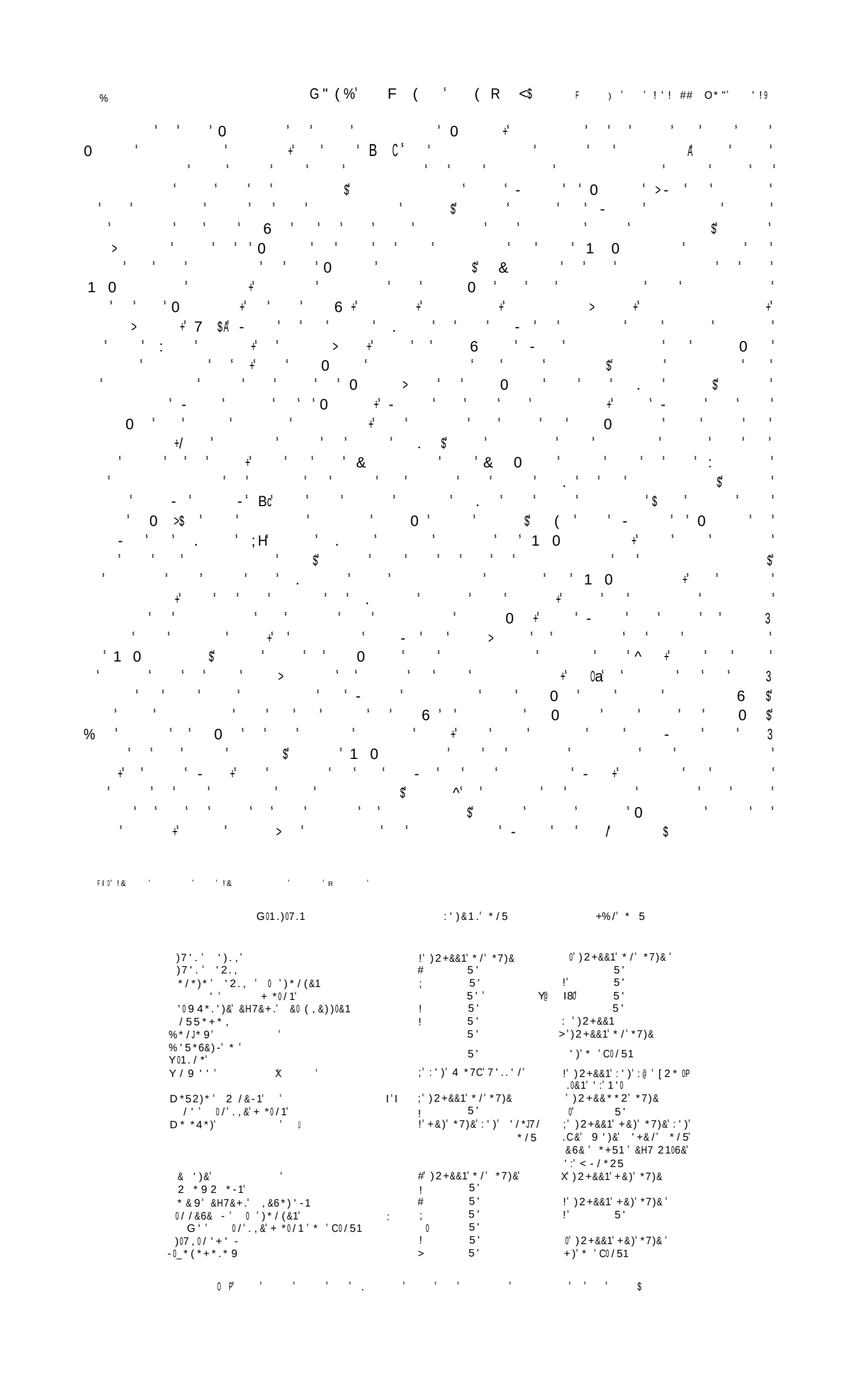

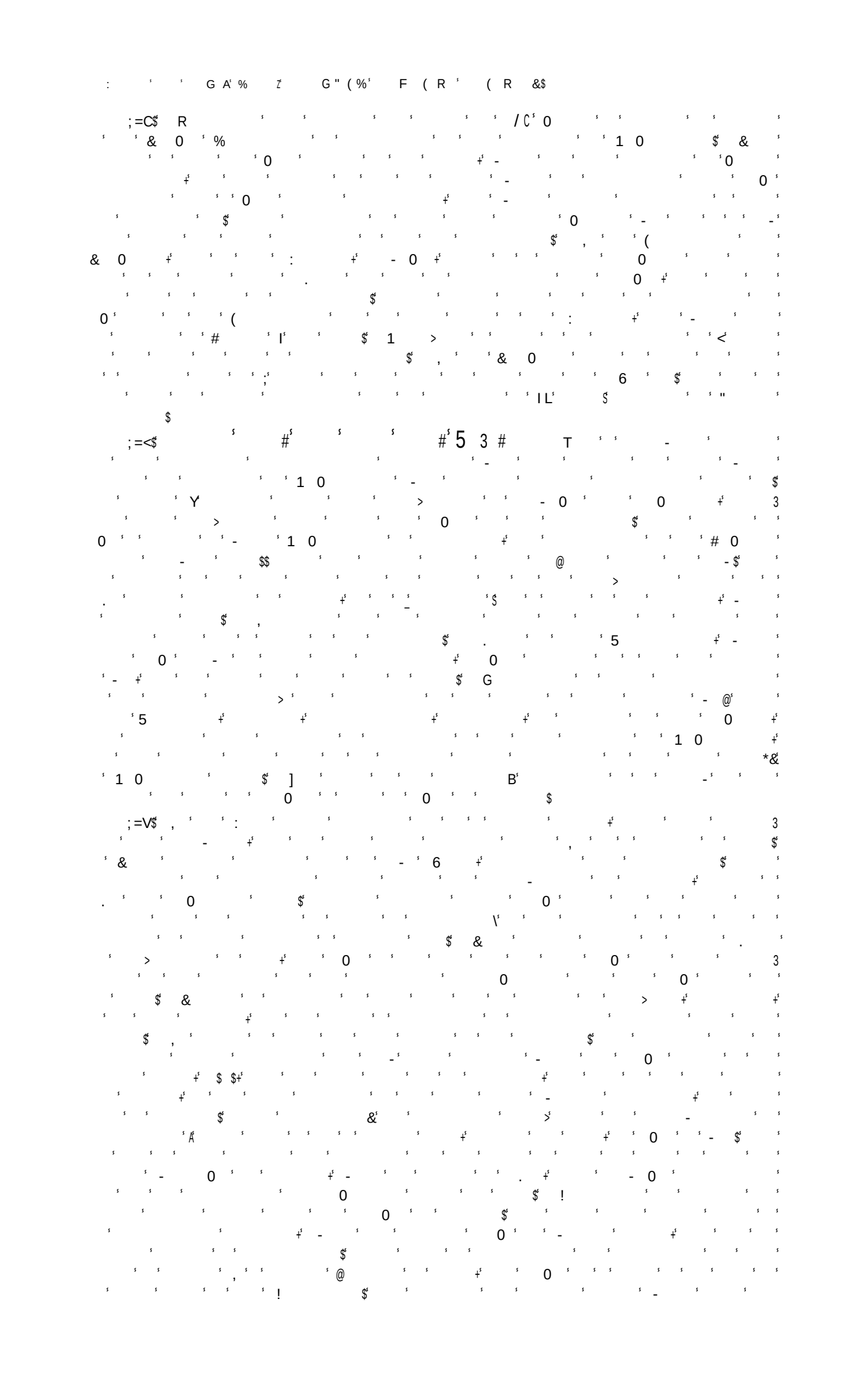

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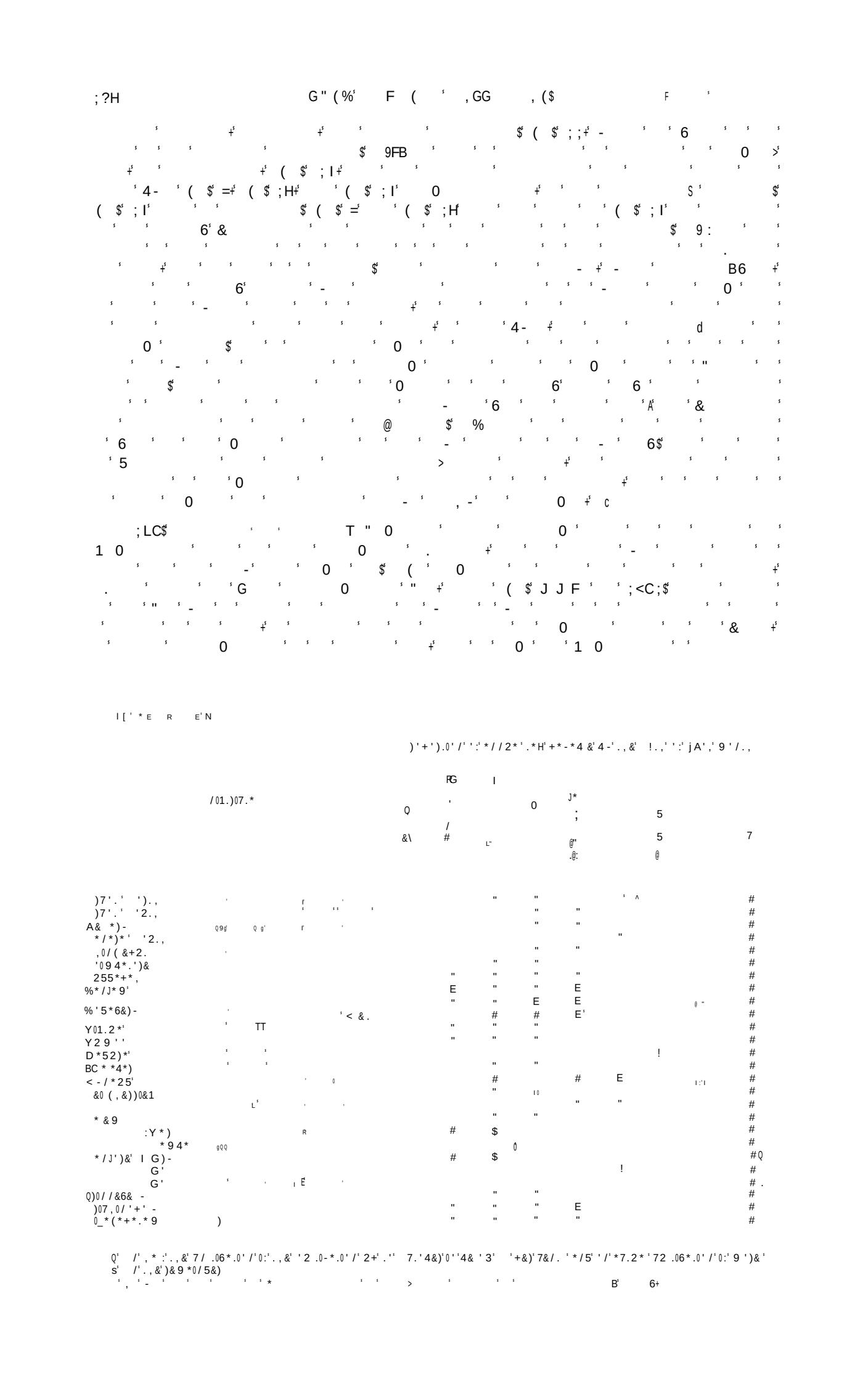

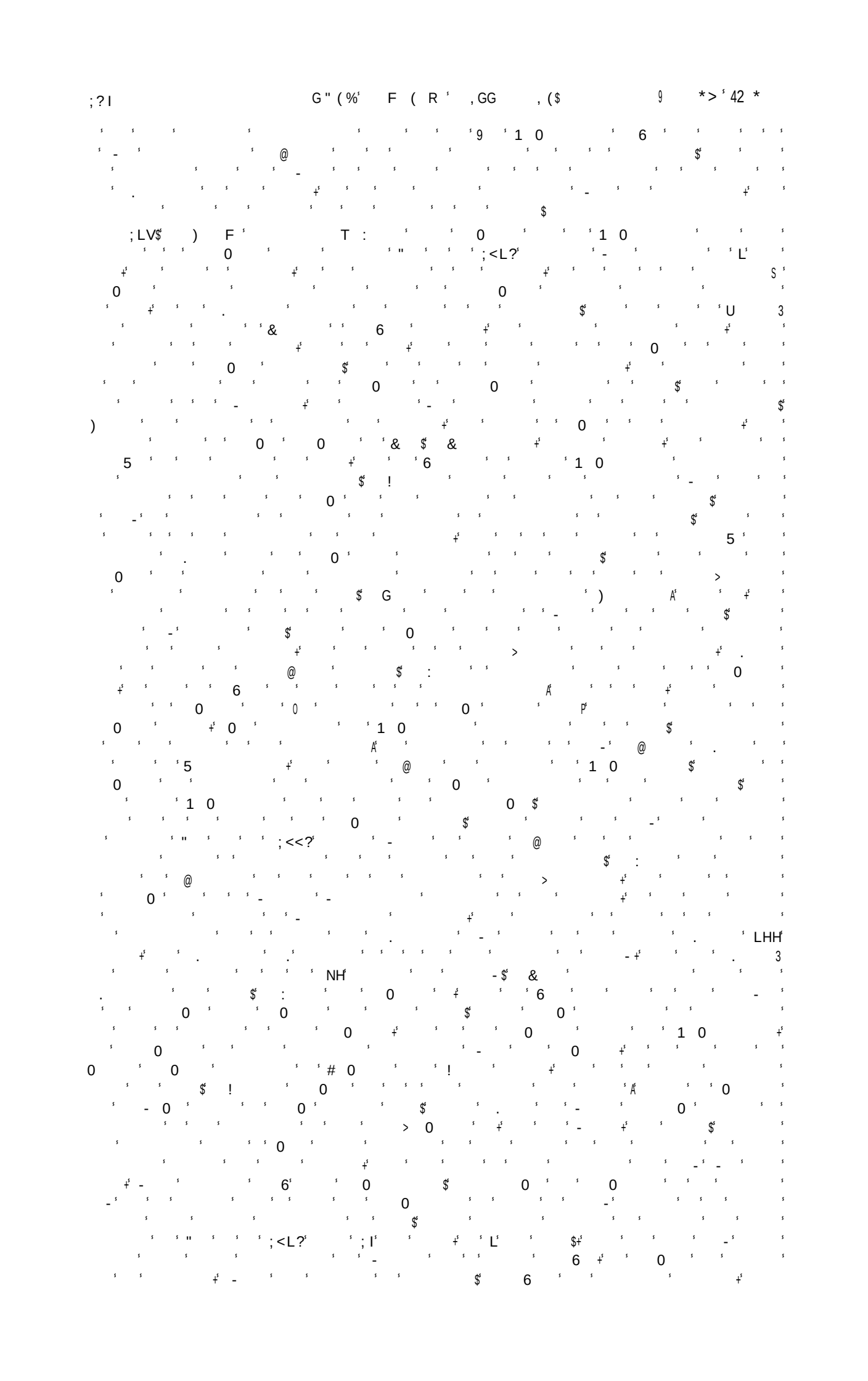

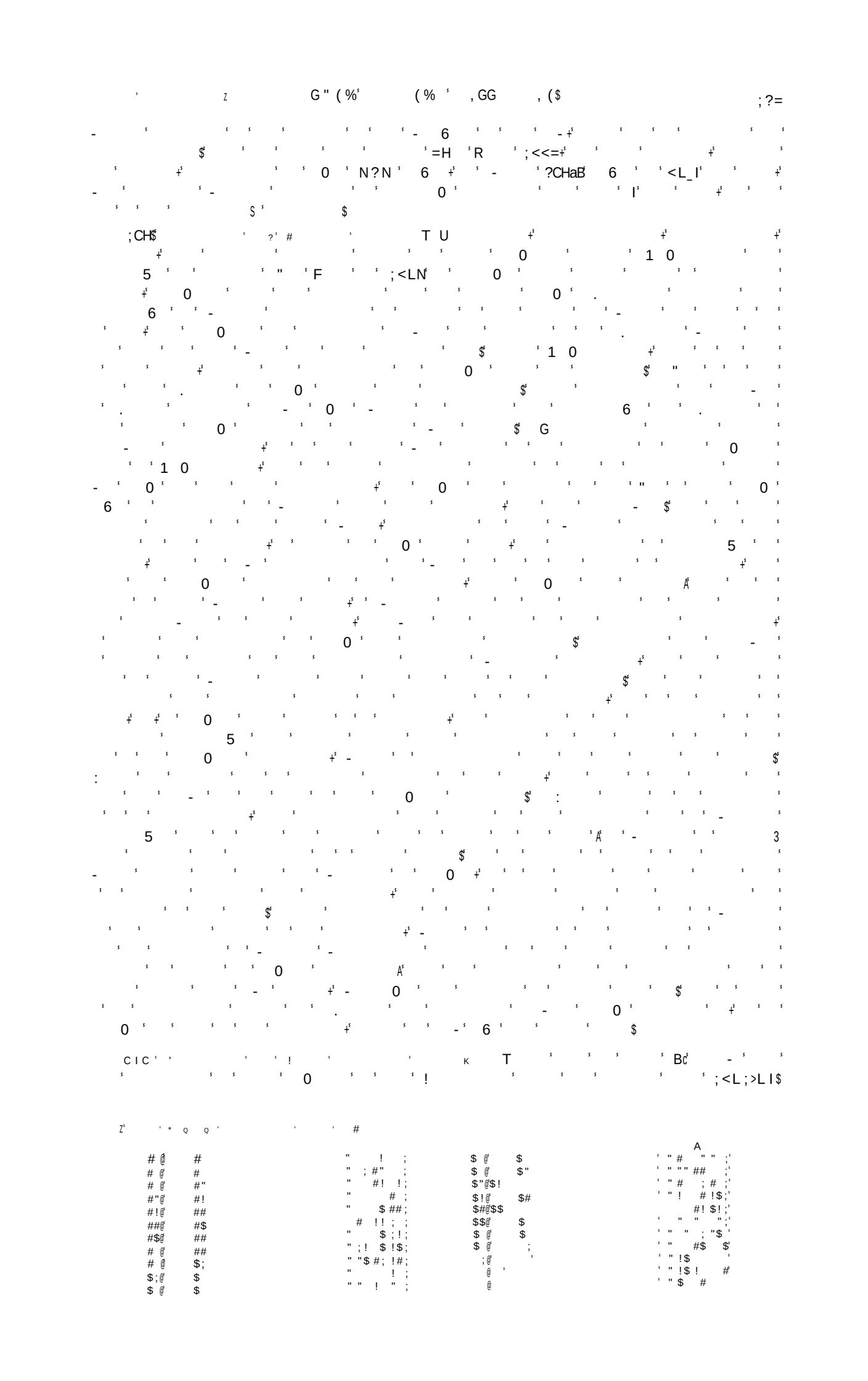

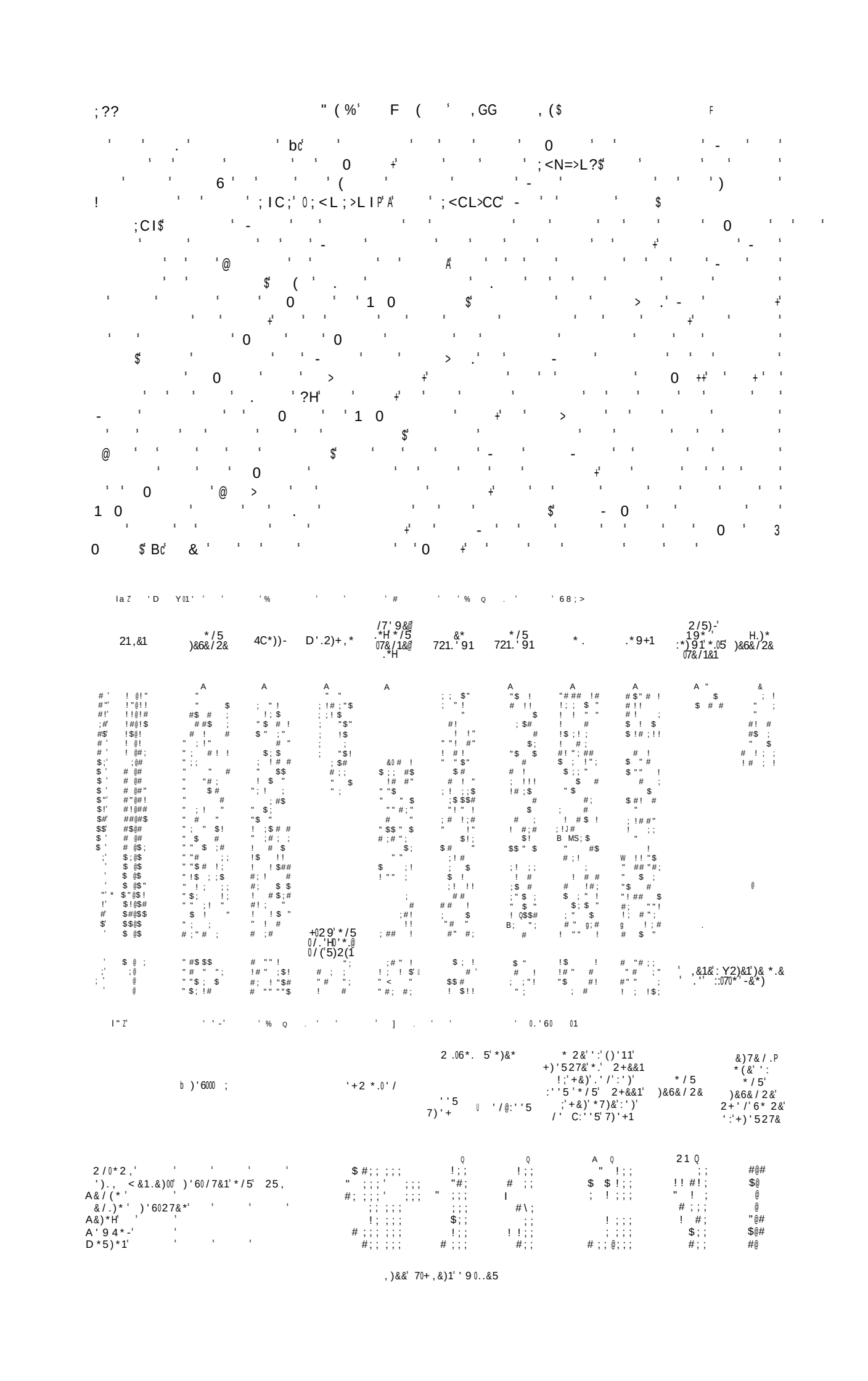

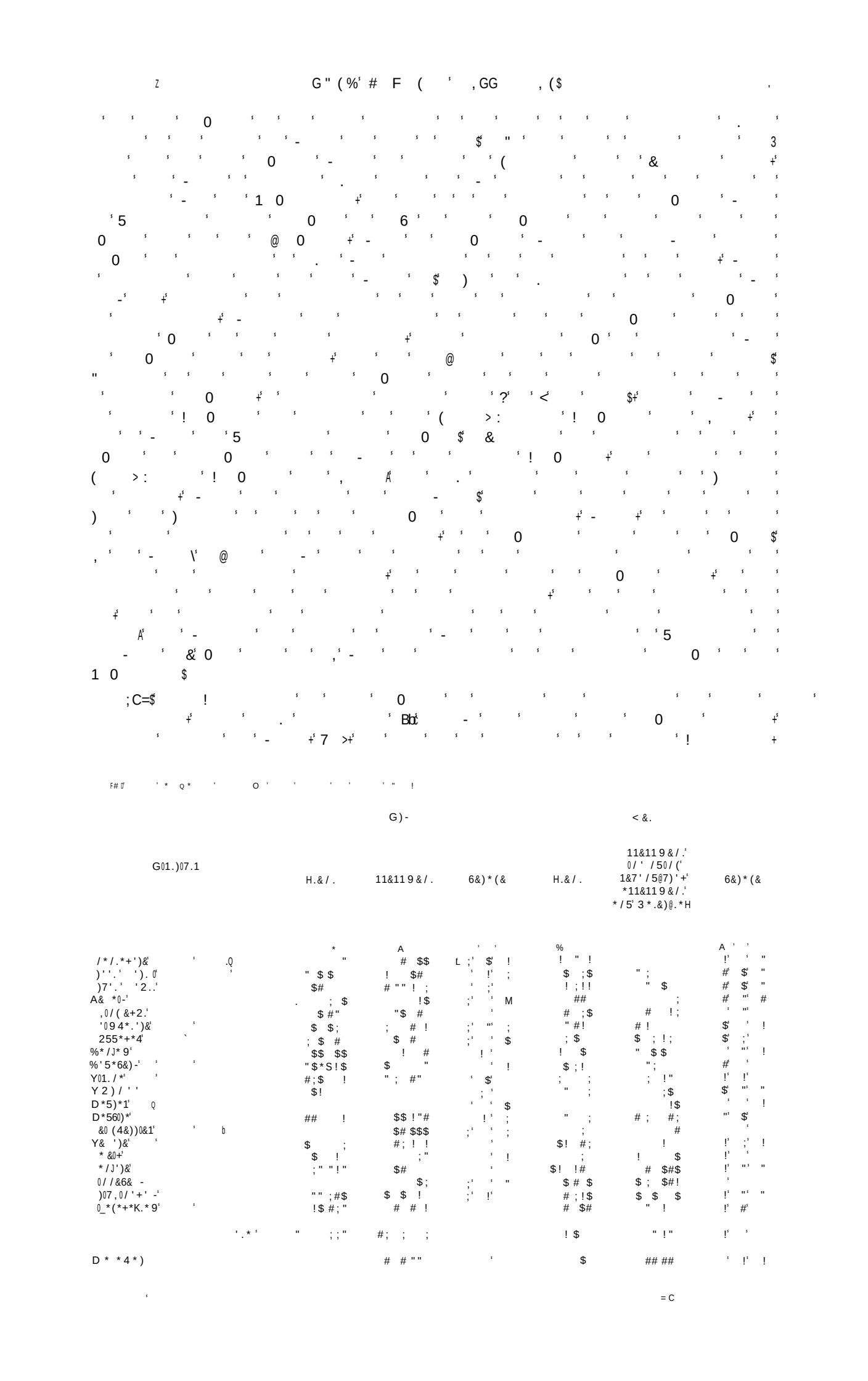

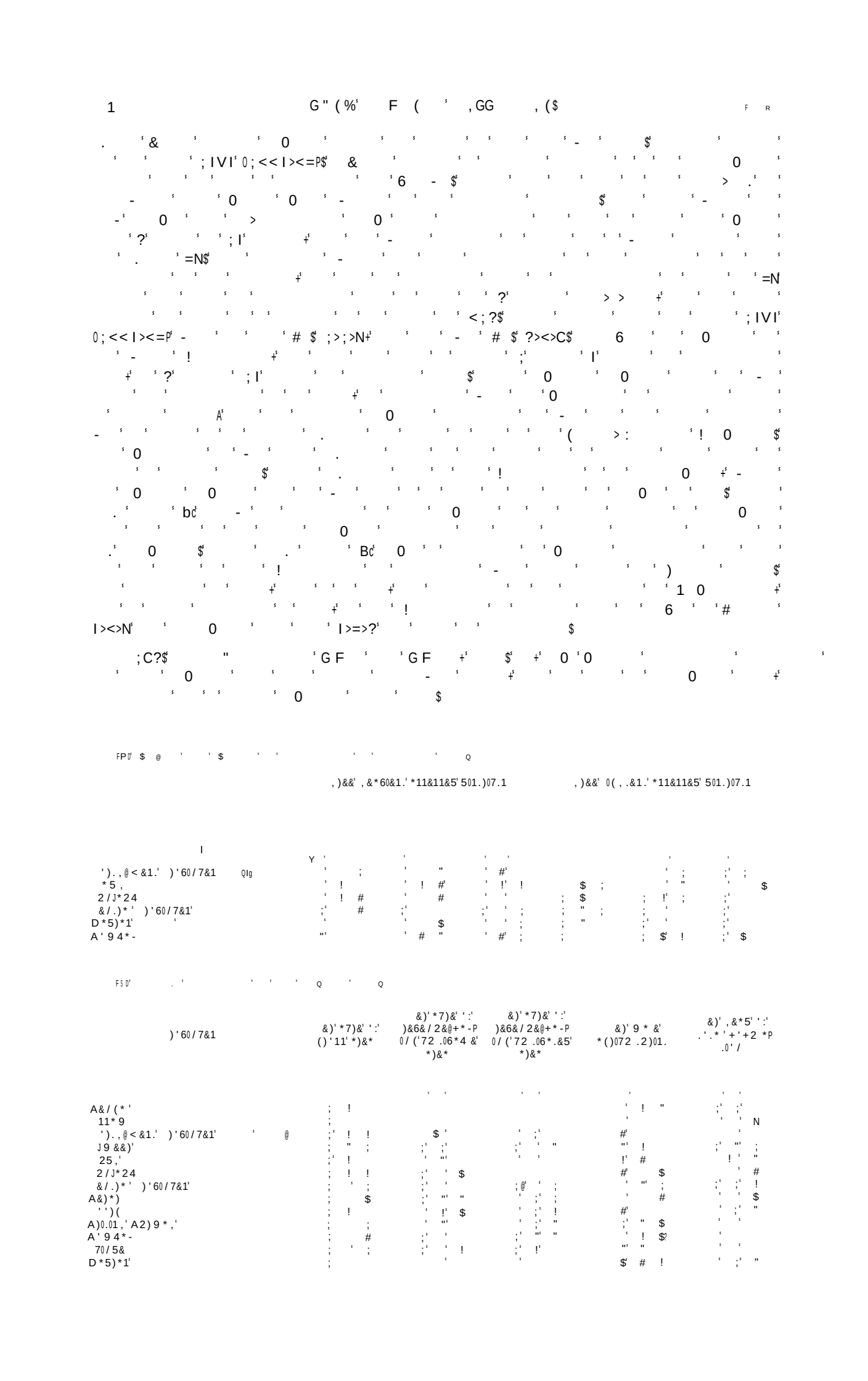

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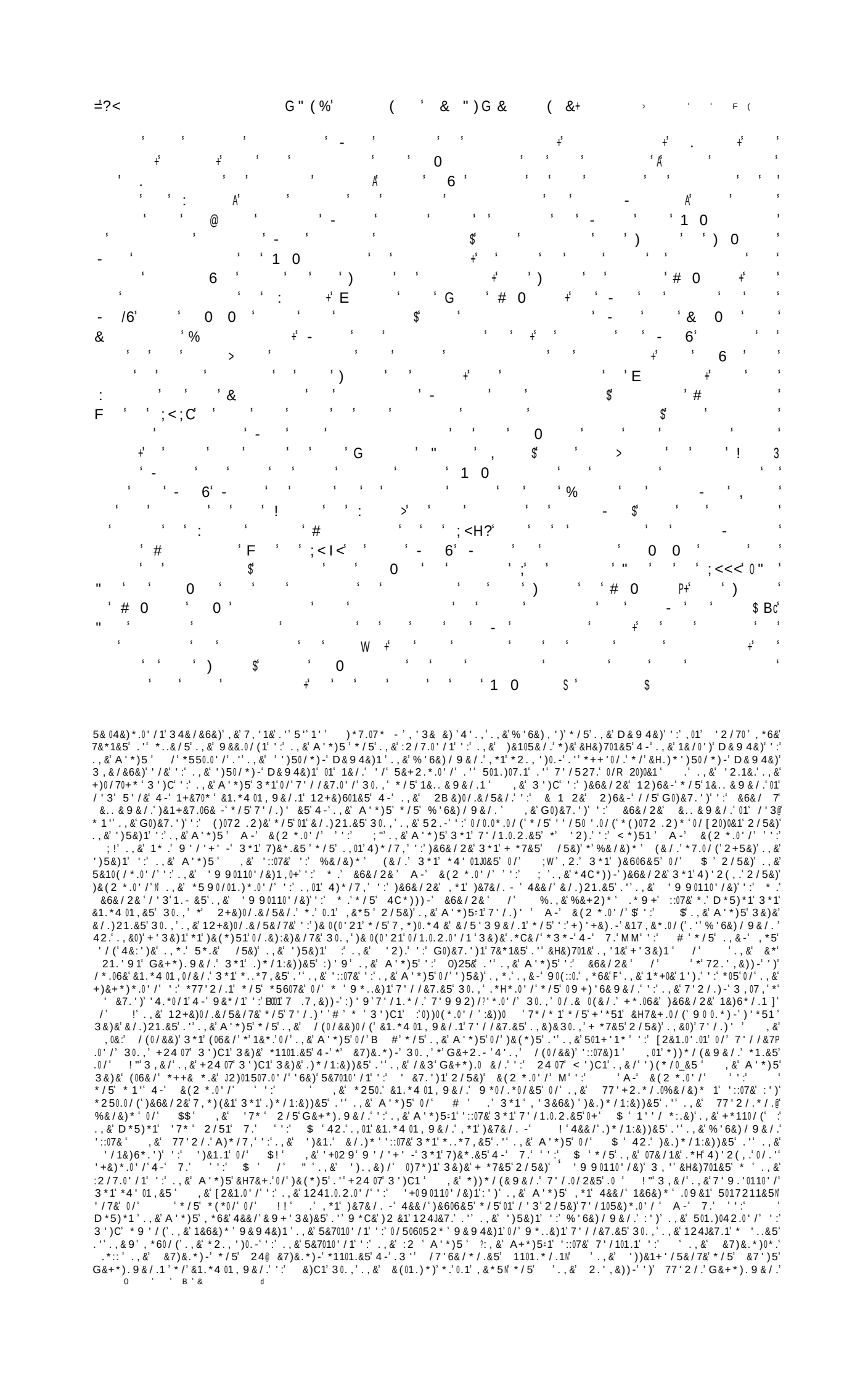
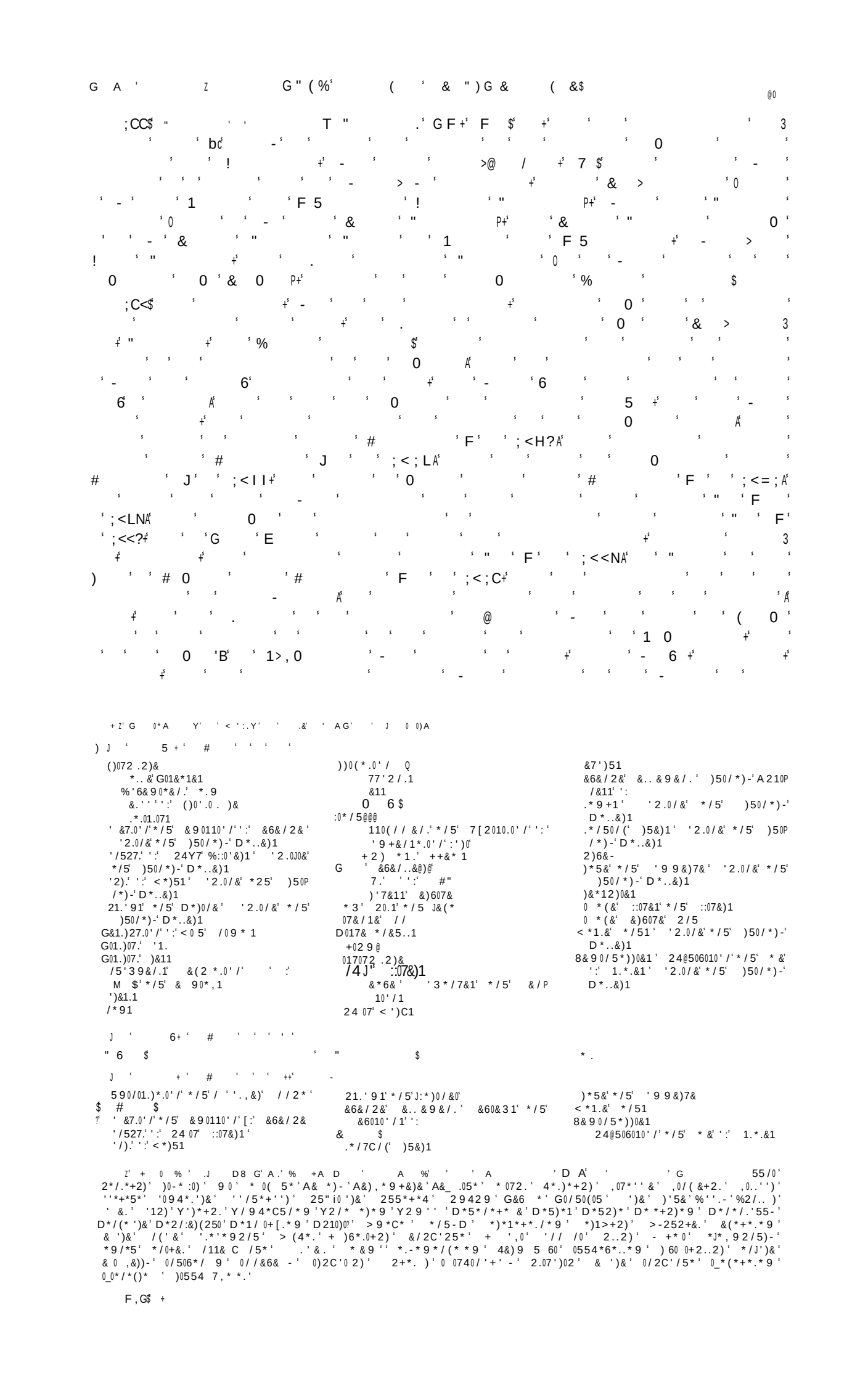
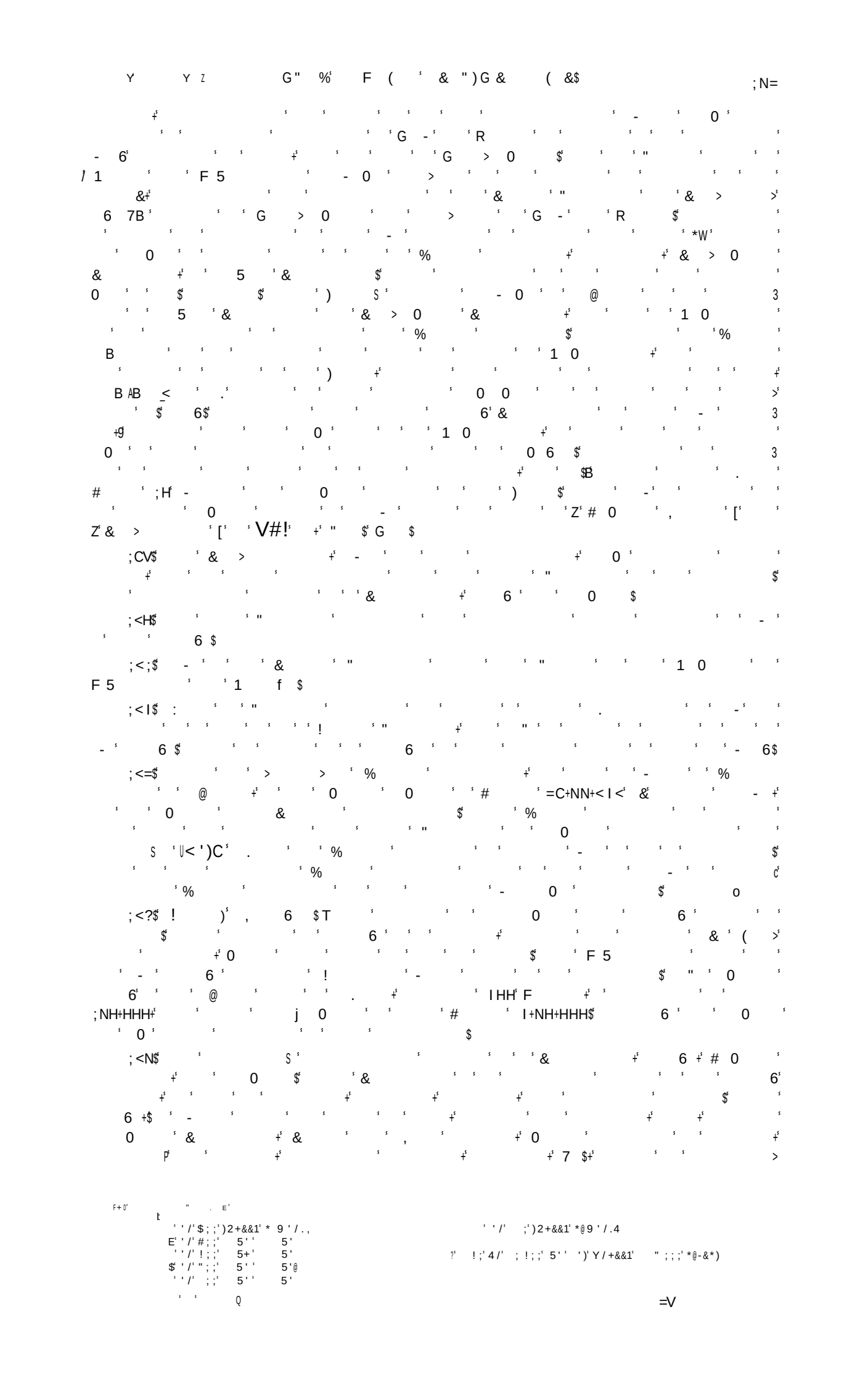


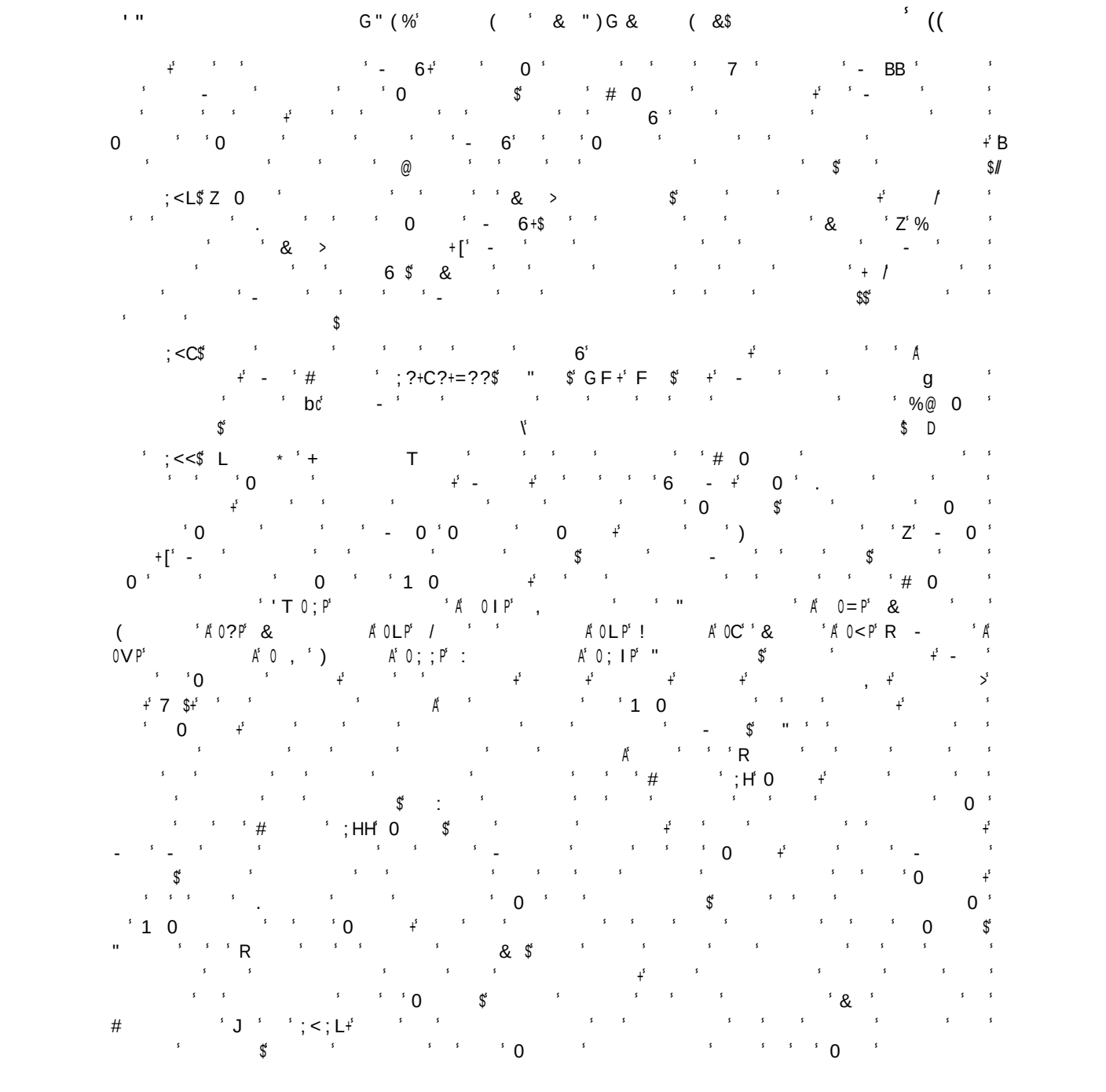


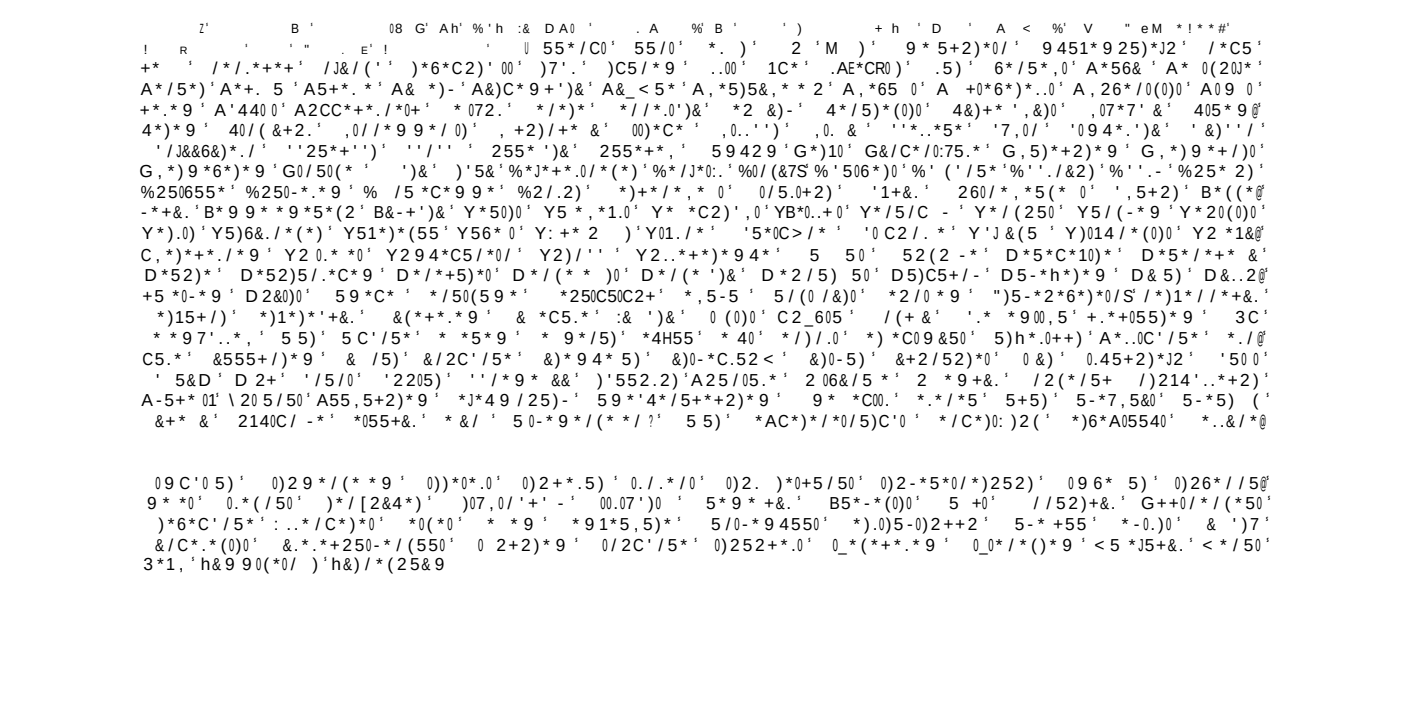
TRI-SECTIONAL MAP
Shewing Districts &
Revenue Divisions
(S. W. Section)
Scale 1/64 th Inch to the Mile
or 1/4055040 of nature
Miles 64 32 0 64 128 Miles
REFERENCE
District Boundary
Division do.
Zemindarries
BOMBAY
MYSORE
SALEM
TRICHINOPOLY
TANJORE
COIMBATORE
MADURA
TINNEVELLY
TRAVANCORE
Native State
COCHIN
Native State
Coondapore
Hd. Assist. Collr.
Mangalore
Collector
Puttoor
Genl. Dy. Collr.
Tellicherry
Sub. Collr.
Manantoddy
Genl. Dy. Collr.
Cannat
Collector
Malapooram
Sp. Assist. Collr.
Ponnany
Genl. Dy. Collr.
PONNANY R.
Palghaut
Hd. Assist. Collr.
Coimbatore
Collector
Suttimungalam
Genl. Dy. Collr.
Ootacamund
Collector
Erode
Sub. Collr.
Pollachy
Hd. Assist. Collr.
Dindigul
Sub Collector
Madura
Collector
Assist. Collr.
Genl. Dy. Collr.
Ramnad
Hd. Assist. Collr.
Sreevilliputtore
Genl. Dy. Collr.
Tinnevelly
Sub. Collr.
Assist. Collr.
Shermadevy
Hd. Assist. Collr.
VEIGAY R.
VEIPPAUR R.
TAMBRAPURNY R.
LACCADIVE ISLANDS
MALDIVE ISLANDS
SCALE 1 INCH = 120 MILES = 1/7603200

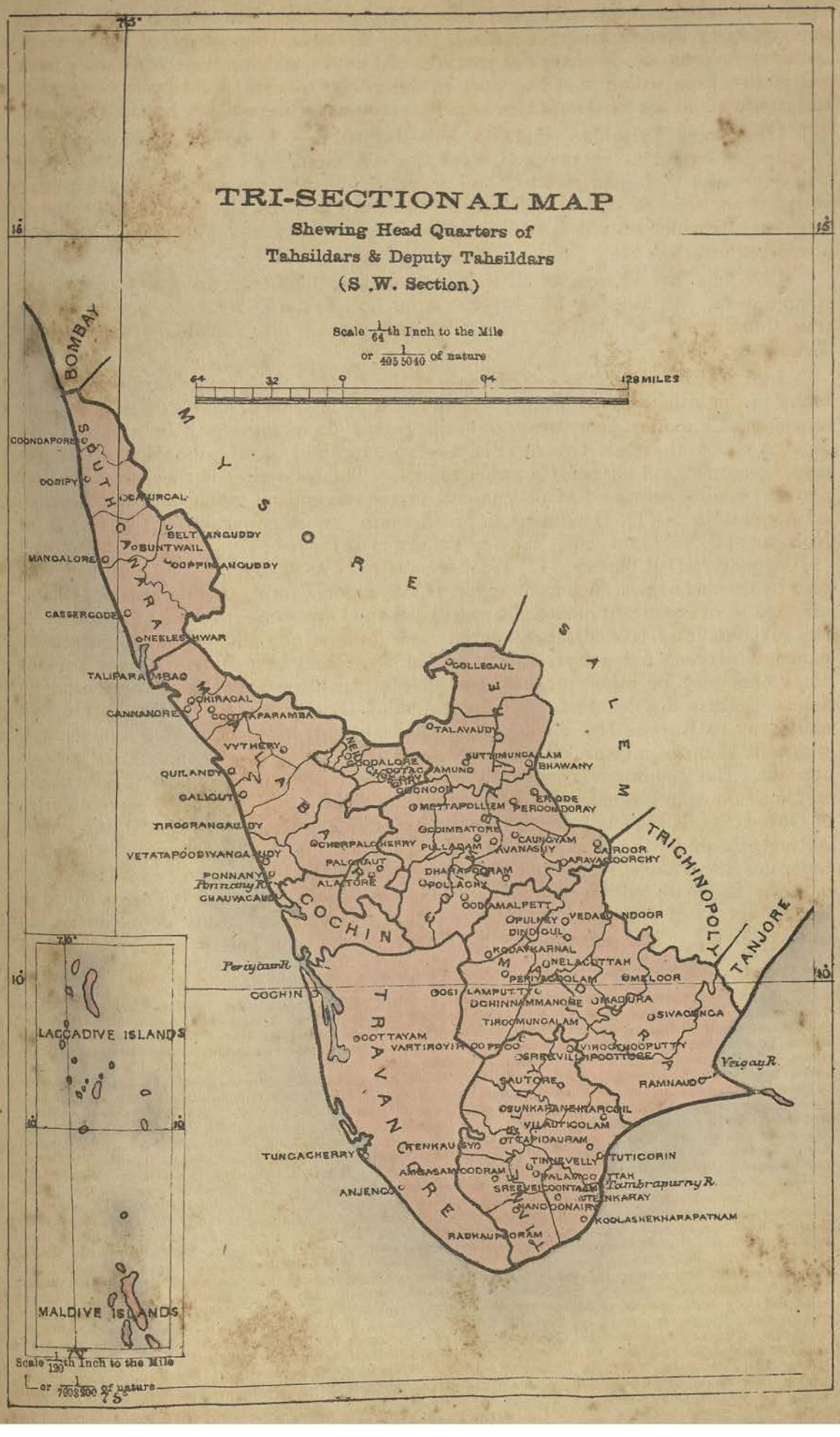
TRI-SECTIONAL MAP
Shewing Districts &
Revenue Divisions
(Central Section)
Scale 1/62 th Inch to the Mile
or 1/4053040 of nature
Miles 64 32 0 4 128 Miles
80°
15°
10°
NIZAMS DOMINIONS
BOMBAY
MYSORE
COIMBATORE
MADURA
GODAVERY
KISTNA
NELLORE
CUDDAPAH
BELLARY
ANANTAPOORE
KURNOOL
Bezwada
Hd: Assist: Collr:
Vinoocondah
Gent: Dy: Collr:
Coontoop
Sub: Collr:
Masulipatam
Collr:
Cumbum
Gent: Dy: Collr:
Collector
Adony
Gent: Dy: Collr:
Kurnool
Assist: Collr:
Nundiaul
Hd: Assist: Collr:
Cyanah
Gent: Dy: Collr:
Bellary
Collr:
Gooty
Gent: Dy: Collr:
Hospett
Hd: Assist: Collr
Anantapoore
Assist: Collr:
Penoocondah
Hd: Assist: Collr
Cuddapah
Assist: Collr:
Hd: Assist: Collr:
Madanapilly
Sub: Collr:
Sidhout
Gent: Dy: Collr:
Ongole
Sub: Collr:
Darsy
Hd: Assist: Collr
Nellore
Collr:
Naidapett
Gent: Dy: Collr:
Venkatagherry
Calastry
Ramapett
Hd: Assist: Collr
Canvetnuggeh
Chittore
Collr:
Poonamore
Sydapett
Collr: Gent: Dy: Collr:
Madras
Poolicat Lake
Chingleput
Gangleput
Sub: Collr
Arnee
Gent: Dy: Collr:
Vellore
Sub: Collr:
North Arcot
Oossoor
Sub: Collr:
Tripatore
Hd: Assist: Collr:
Tindivanam
Sub: Collr:
South Arcot
Tiroocoilore
Gent: Dy: Collr:
Pondicherry
Pennaur R.
Cuddalore
Collr:
Salem
Collr:
Vriddhachellam
Hd: Assist: Collr:
Vellaur R.
Coleroon R.
Namaull
Gent: Dy: Collr:
Ariyaloor
Gent: Dy: Collr:
Cauvery R.
Combaconam
Sub: Collr:
Trichinopoly
Moosiry
Assist: Collr
Hd: Assist: Collr:
Negapatam
Hd: Assist: Collr:
Tanjore
Gent: Dy: Collr:
Poodoocottah
(State)
Assist: Collr:
Munnargoody
Gent: Dy: Collr:
Palaur R.
Coondlacumma R.
Mouths of the Kistna R.
Pennair R.
REFERENCE
District Boundary
Division do.
Zemindarries

TRI-SECTIONAL MAP
Shewing Districts &
Revenue Divisions
(N. E. Section)
Scale 1/64 th Inch to the Mile
or 1/4055040 of nature
Miles 64 32 0 64 128 Miles
85°
20°
15°
BENGAL
CENTRAL PROVINCES
NIZAMS DOMINIONS
Balliguda Sp. Assist. Agent
Russellcondah Genl. Dy. Collr.
Chicacole Collr.
ROUSHCOOLYA R.
Parvatipore Senr. Assist. Collr.
Berhampore Senr. Assist. Collr.
Chicacole Frin. Assist. Collr.
Korapute Sp. Assist. Agent
Vizianagram Genl. Dy. Collr.
VAMSHADHARA R.
LANGOOLYA R.
Coonavaram Sp. Assist. Agent
Rajahmundry Sub. Collr.
Narsapatam Frin. Assist. Collr.
Vizagapatam Collector
Cocanada Collr.
Ellore Head Assist. Collr.
Narsapore Genl. Dy. Collr.
MOUTHS OF THE GODAVERY
GODAVERY
KISTNA
REFERENCE
District Boundary
Division do.
Zemindarries



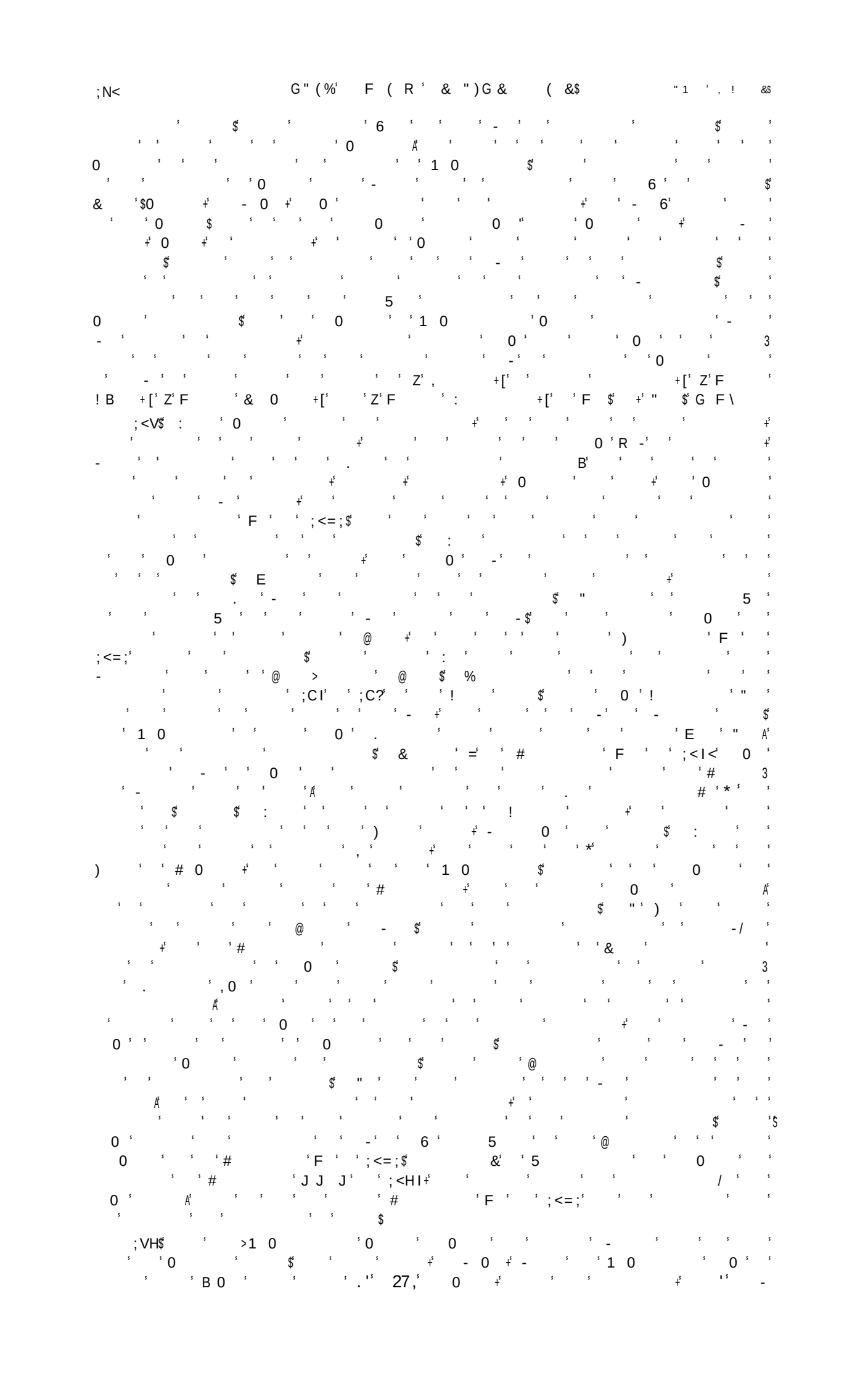


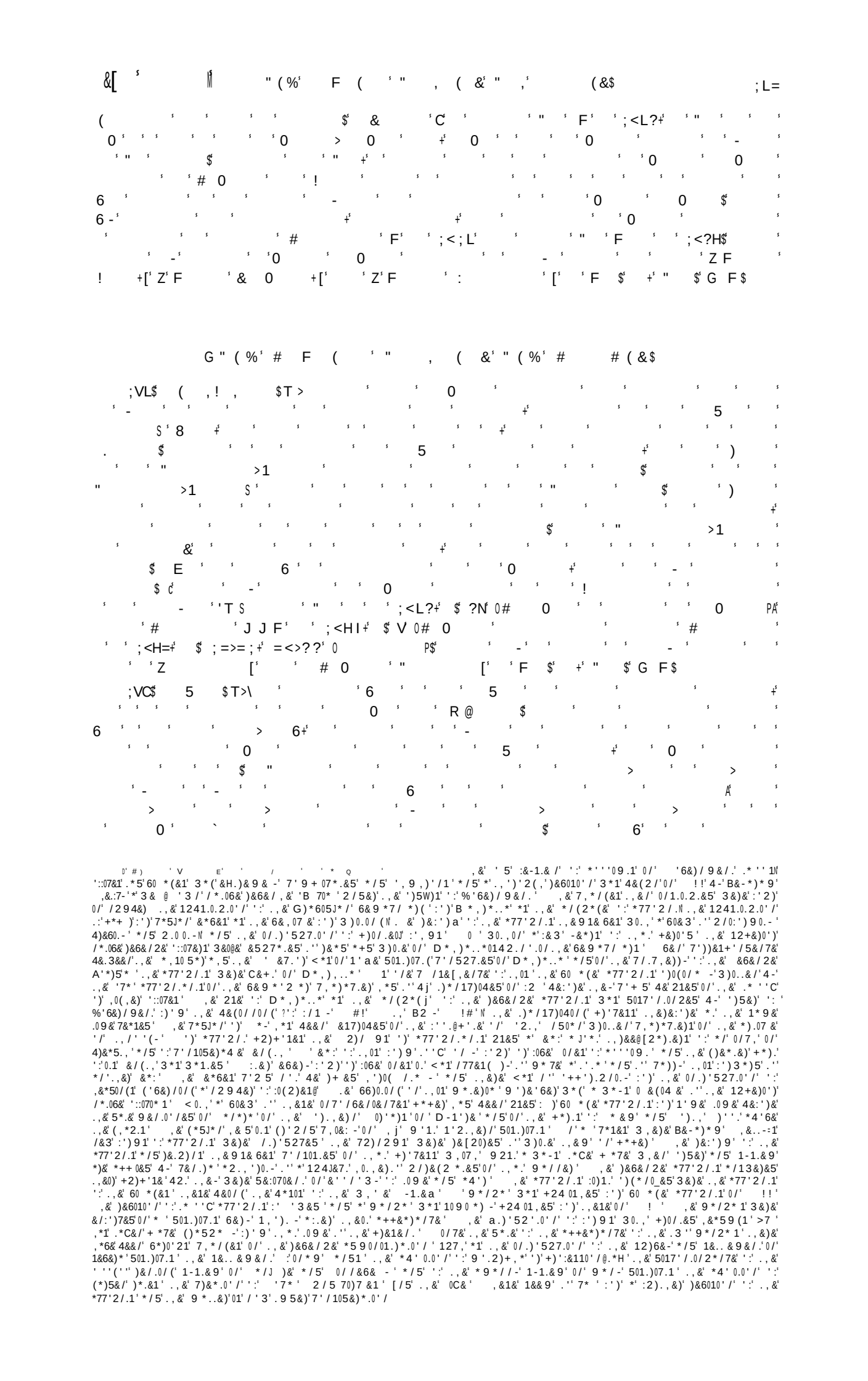


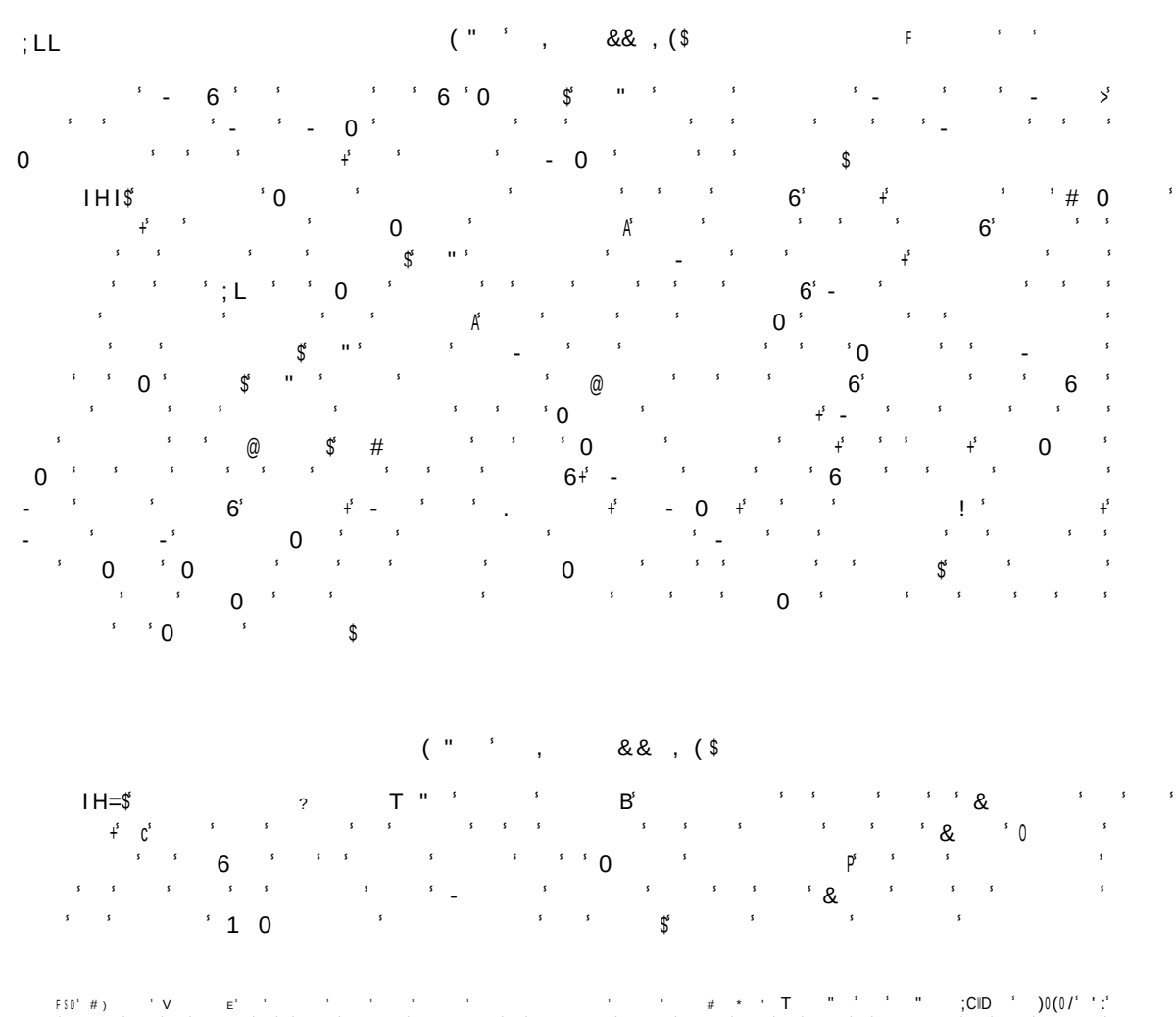

TRI-SECTIONAL MAP
Shewing Head Quarters of
Tahsildars & Deputy Tahsildars
(S .W. Section.)
Scale 1/64th Inch to the Mile
or 1/405 5040 of nature
64 32 0 64 128 MILES
BOMBAY
MYSORE
SOUTH CANARA
COONDAPORE
DOBIPY
BELTANGUDDY
BUNTWAL
COPPINANGUDDY
MANGALORE
CASSERGODE
NEELESHWAR
TALIPARAMBAH
CHIRACAL
CANNANORE
COTTAPARAMBA
VYTHERY
QUILANDY
CALICUT
TIRORANGADY
VETATAPOODIYANGADY
PONNANY
Ponnany R.
CHAUVACAUD
COCHIN
Periyaur R.
LACCADIVE ISLANDS
MALDIVE ISLANDS
Scale 1/120th Inch to the Mile
or 1/7608500 of nature
COLLEGAUL
TALAVADY
SUTTIMUNGALAM
BHAWANY
GODALORE
AMUND
ERODE
PEROOMDORAY
METTAPOLLIEM
COIMBATORE
CHERPALCHERRY
PULLADAM
CAUNGAYAM
AVANASIY
CAIROOR
KARAVACOORCHY
PALGHAUT
DHARAPOORAM
POLLACHY
ALATORE
TRICHINOPOLY
TANJORE
MADURA
DINDIGUL
KODAIKARNAL
PERIYACOOLAM
MELOOR
NELACOTTAH
VEDASENDOOR
OSCOTTAYAM
VARTIROYITH
TIROOMUNGALAM
SIVAGUNGA
VIROOCHOOPUTTY
SREEVILLIPOOTTORE
SAUTORE
RAMNAUD
Vaigay R.
OSUNKARANEHARCOIL
VILLUTICOLAM
CAPIDAURAM
TUTICORIN
TINNEVELLY
PALAMCOTTAH
SREEVEICOONTAM
Tambrapurny R.
TENKARAY
NANGONAIRY
KOOLASHEKHARAPATNAM
TRAVANCORE
TENKAUSYO
TUNCACHERRY
ANJENGO
AMBASAMOODRAM
RADHAUPORAM

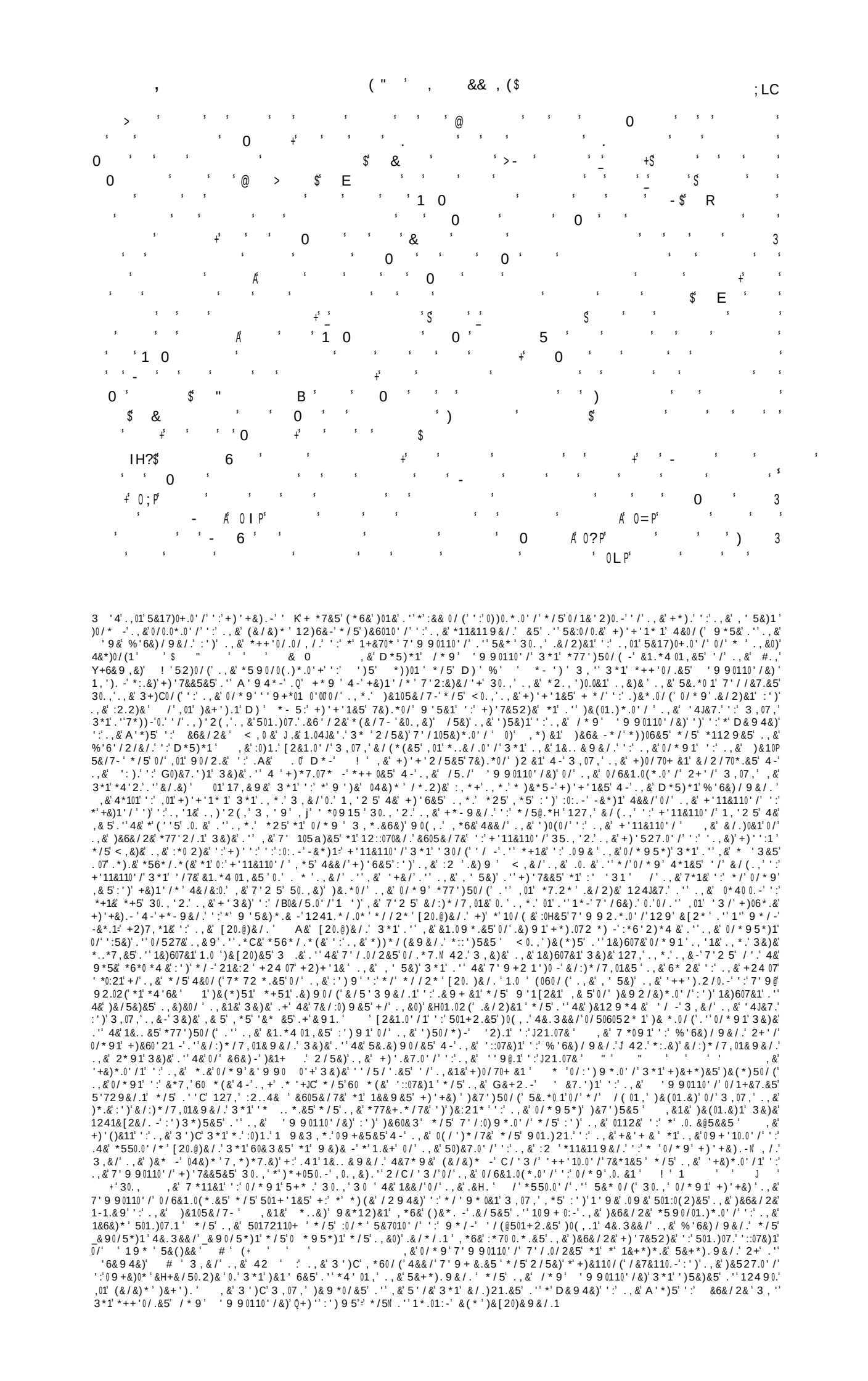
TRI-SECTIONAL MAP
Shewing Head Quarters of
Tahsildars & Deputy Tahsildars
(Central Section)
Scale 1/64th Inch to the Mile
or 1/4055040 of nature
64 32 0 64 128 MILES
80°
15°
10°
NIZAMS DOMINIONS
BOMBAY
MYSORE
MADRAS
KURNOOL
CUDDAPAH
NELLORE
COIMBATORE
SOUTH ARCOT
TRICHINOPOLY
MADURA
TANJORE
CODAVERY
Mouths of the Kistna R.
Goondlacumma R.
Pennair R.
Palaur R.
Vellaur R.
Coleroon R.
Cauvery R.
Ponniaur R.
Gundlacumma R.

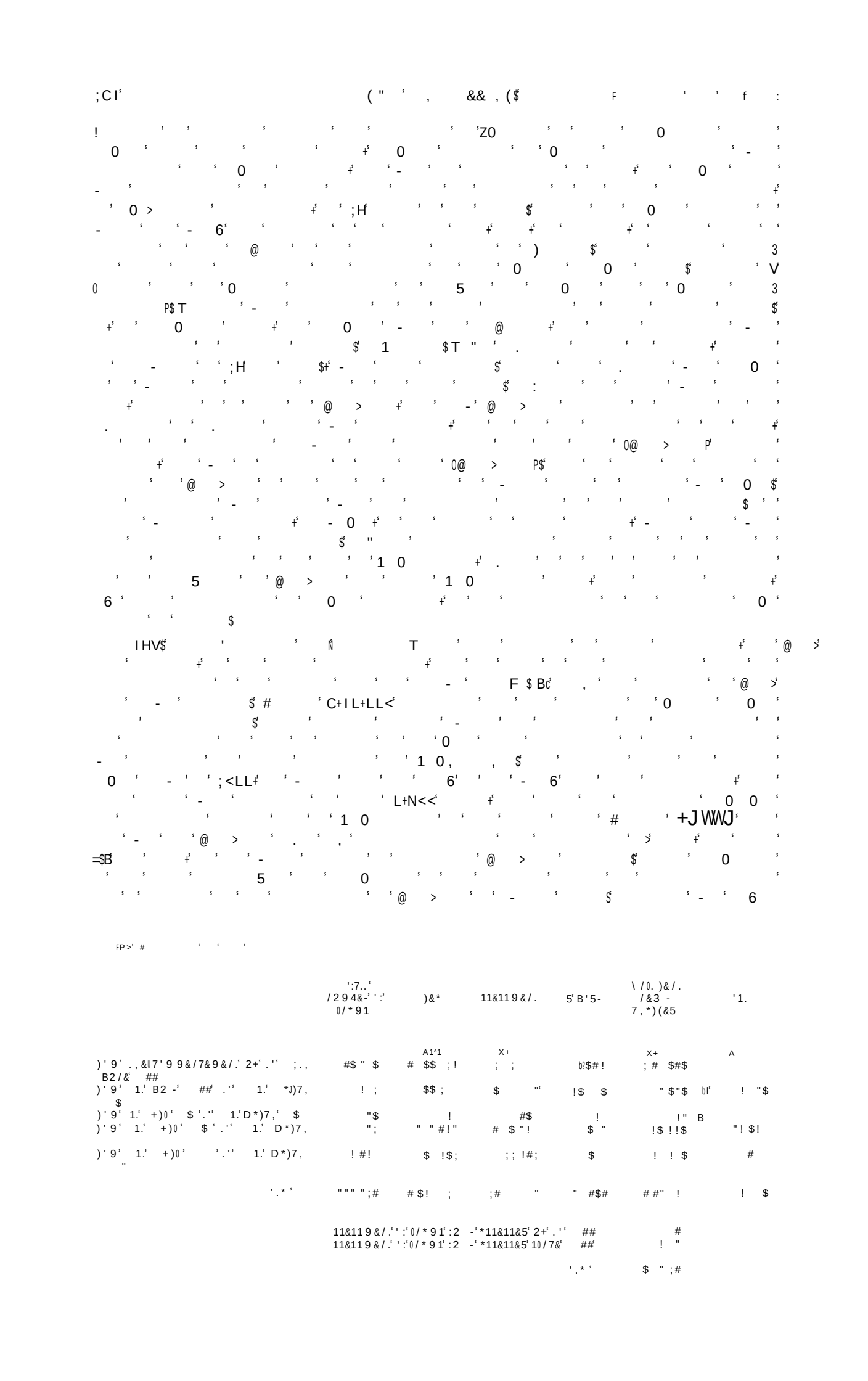
TRI-SECTIONAL MAP
Shewing Head Quarters of
Tahsildars & Deputy Tahsildars
(N. E. Section)
Scale $\frac{1}{64}$th Inch to the Mile
or $\frac{1}{4053040}$ of nature
64 32 0 64 128 MILES
CENTRAL PROVINCES
BENGAL
NIZAMS DOMINIONS
GODAVERY
KISTNA
JEYPORE
KORAPUTT
PARVATIPORE
POTTINGHY
SAULORE
OBOUBILY
PALCONDAH
TEKKALY
PARLAKIMEDY
NARSANNAPETT
CHERPOOPULLY
COCHACOLE
VIZIANAGRAM
BIMLIPATAM
VIZAGAPATAM
BHADRACHELLAM
VEERAVILLY
ANKAPULLY
COLCONDAH
GOKAVERAM
COTTAPULLY
TOONY
VELESHWARAM
RAGHOODEVAPOORAM
POLAVERAM
CHINTALAPOODY
RAJAHMUNDRY
PEDDAPOORAM
YERNAGOODEM
COCANADA
ELLORE
PINJAPADOO
RAMACHENDRAPOORAM
TANOCKOO
COTTAPETTAH
RAMALAUPOORAM
BHEEMAVARAM
NARSAPORE
SIVAGODE
Mouths of the Godavery River
BALLIGOODA
ODDAYAGHERRY
GOOMSOOR
SOORABAHO
BISSEMCUTTACK
ASKA
POOROOSHOTTAPORE
CANJAM
Rooshicoolya R.
BERHAMPORE
NAVARUNGAPORE
NOVAGOODA
ICHAPORE
GOONAPORE
RAMACHERRY
SOMPET
GOTTAPAUD
MULKANGHERRY
GUJAPATINUGGER
BRINGAVARAPOOGOTE
Vamshadhara R.
Langoolya R.
20°
15°
85°

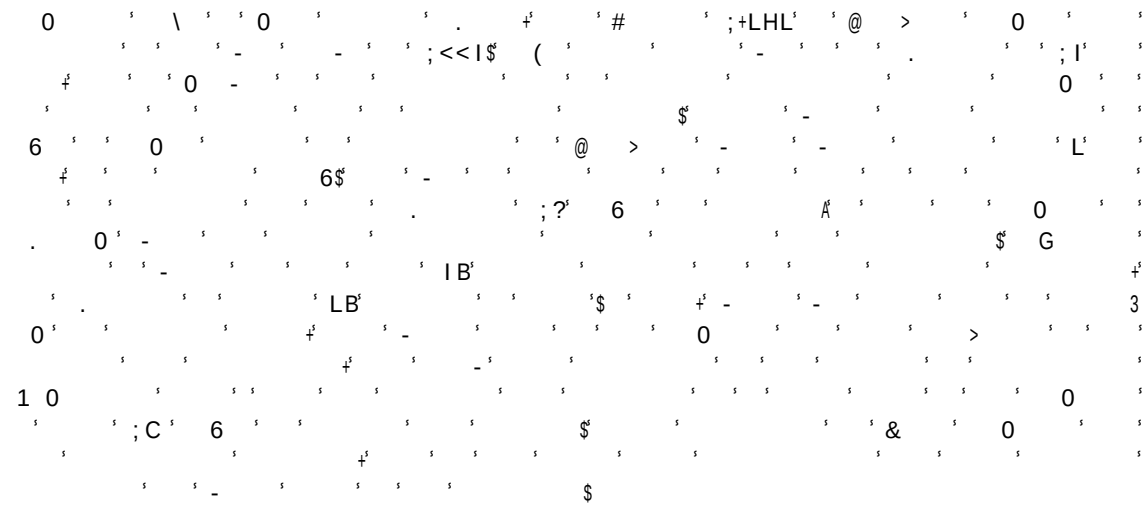












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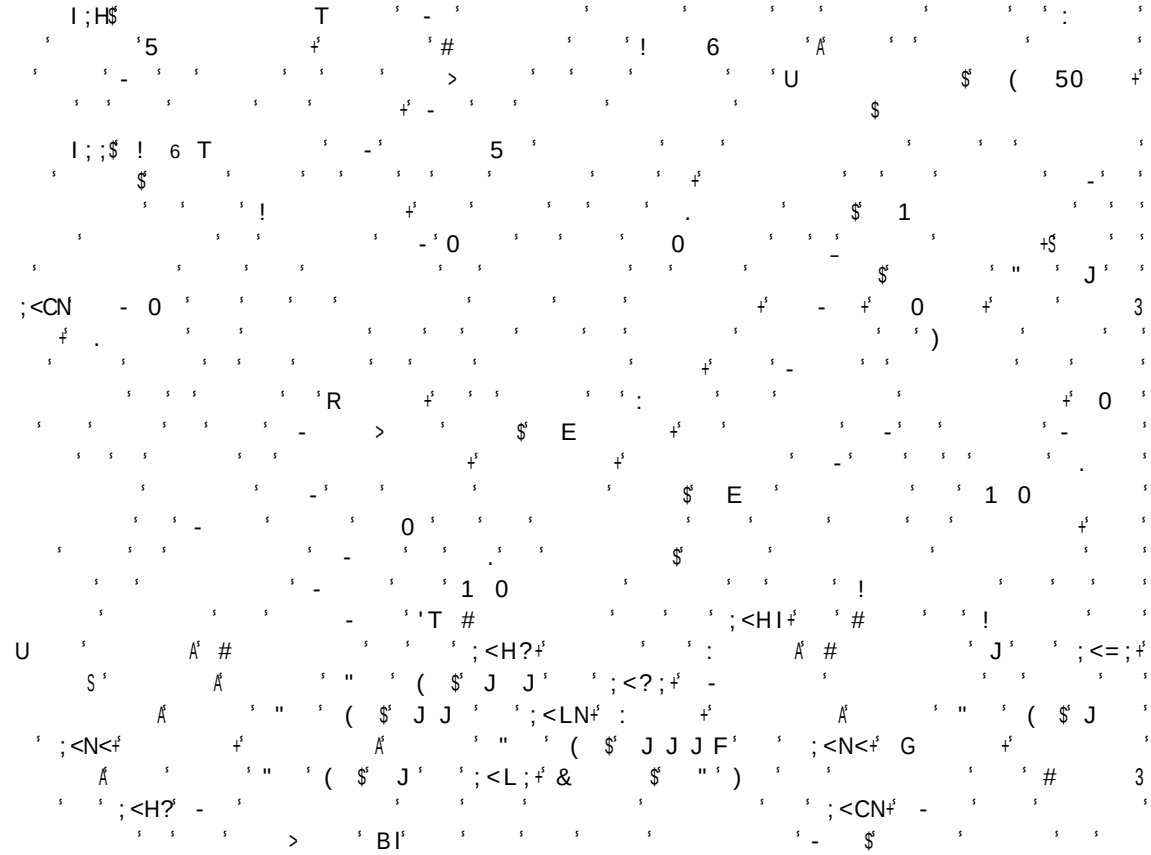

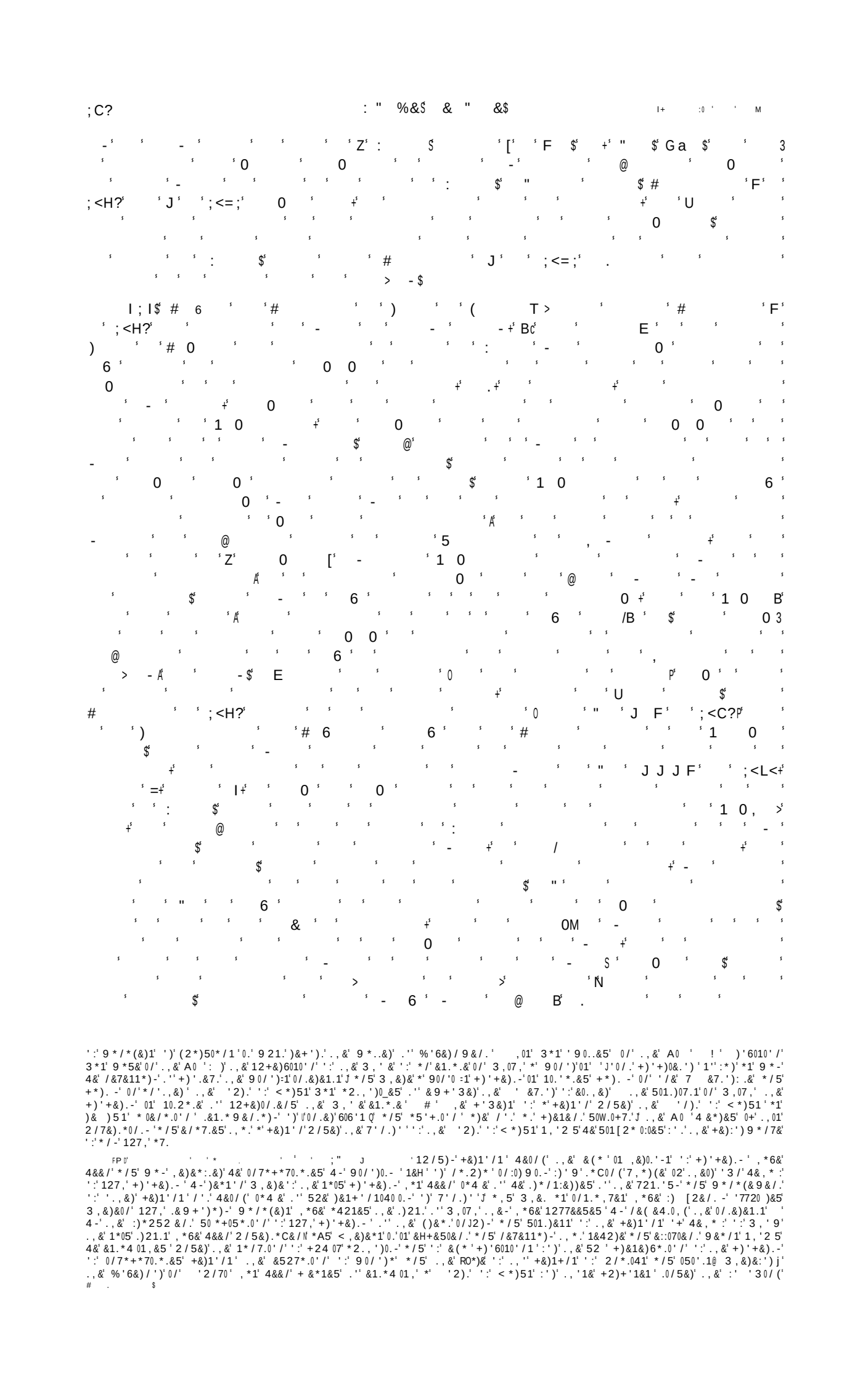

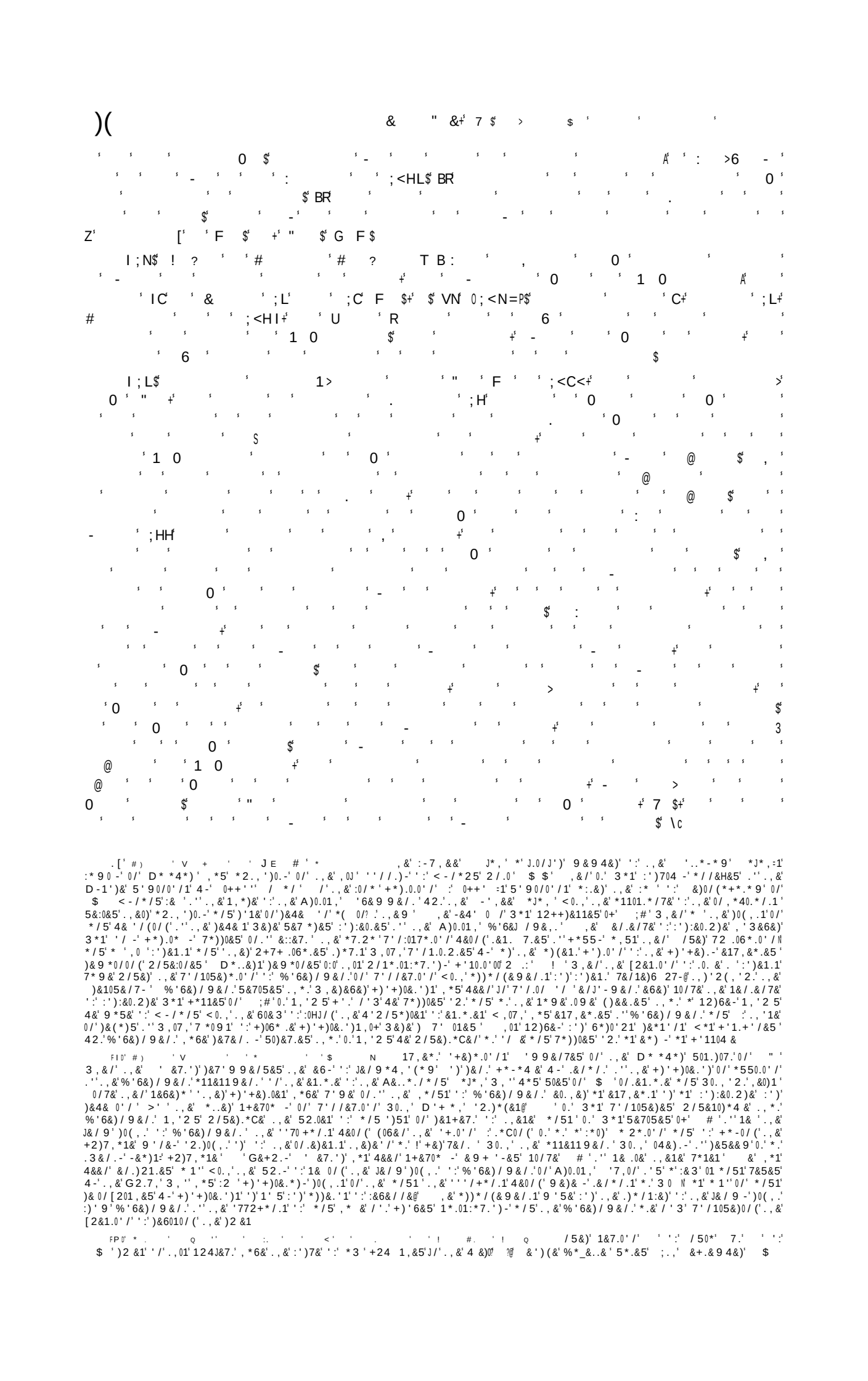

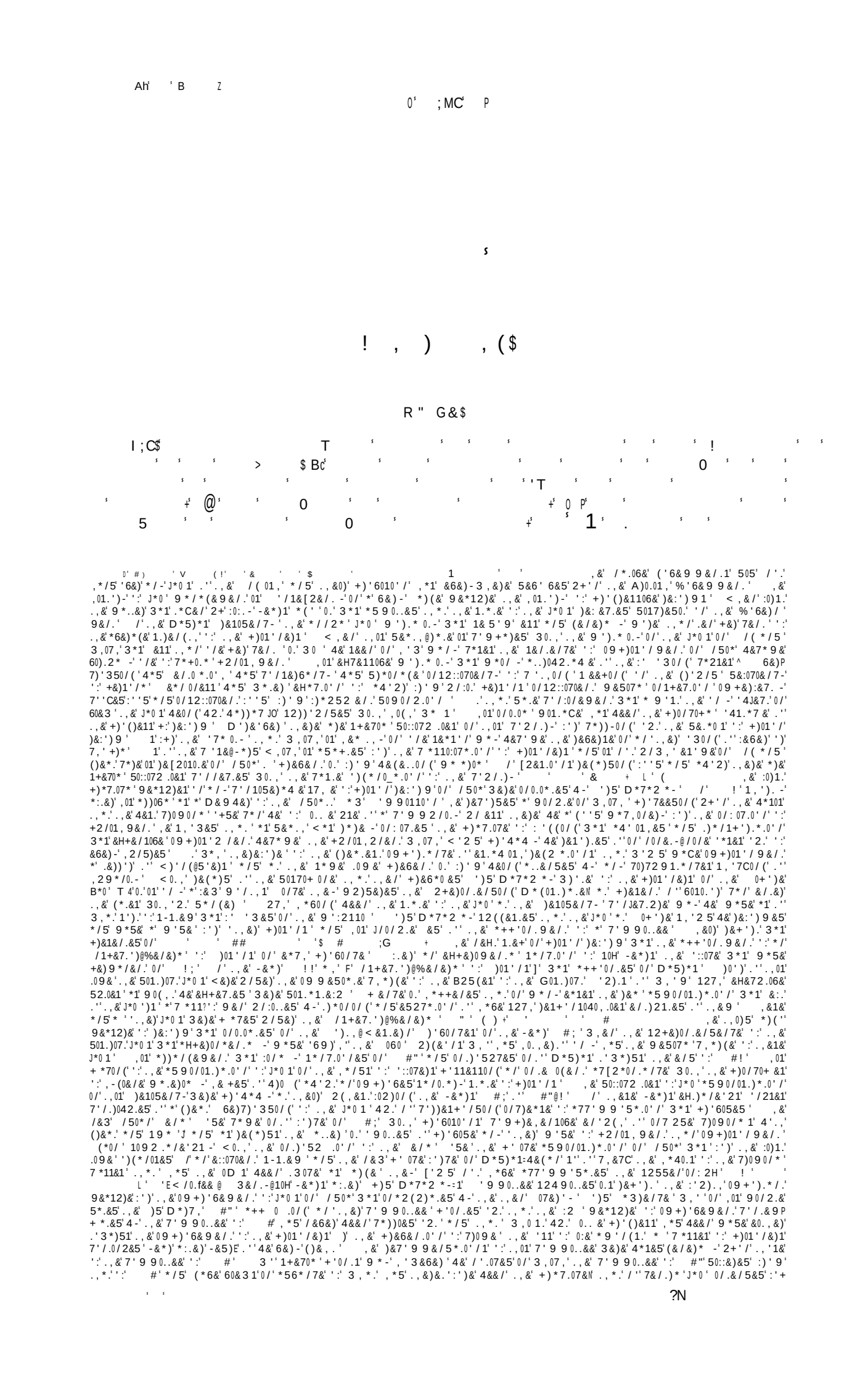

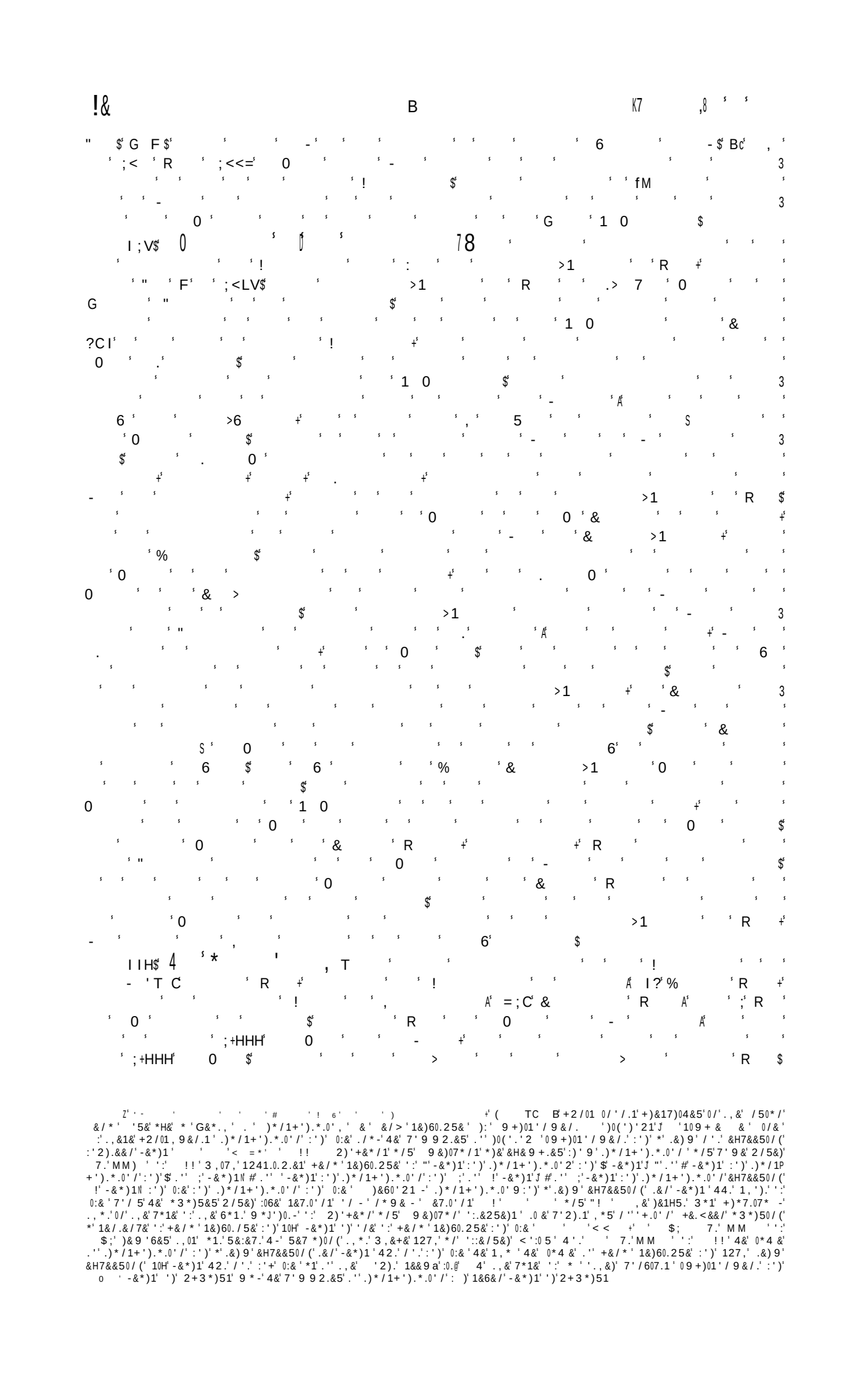

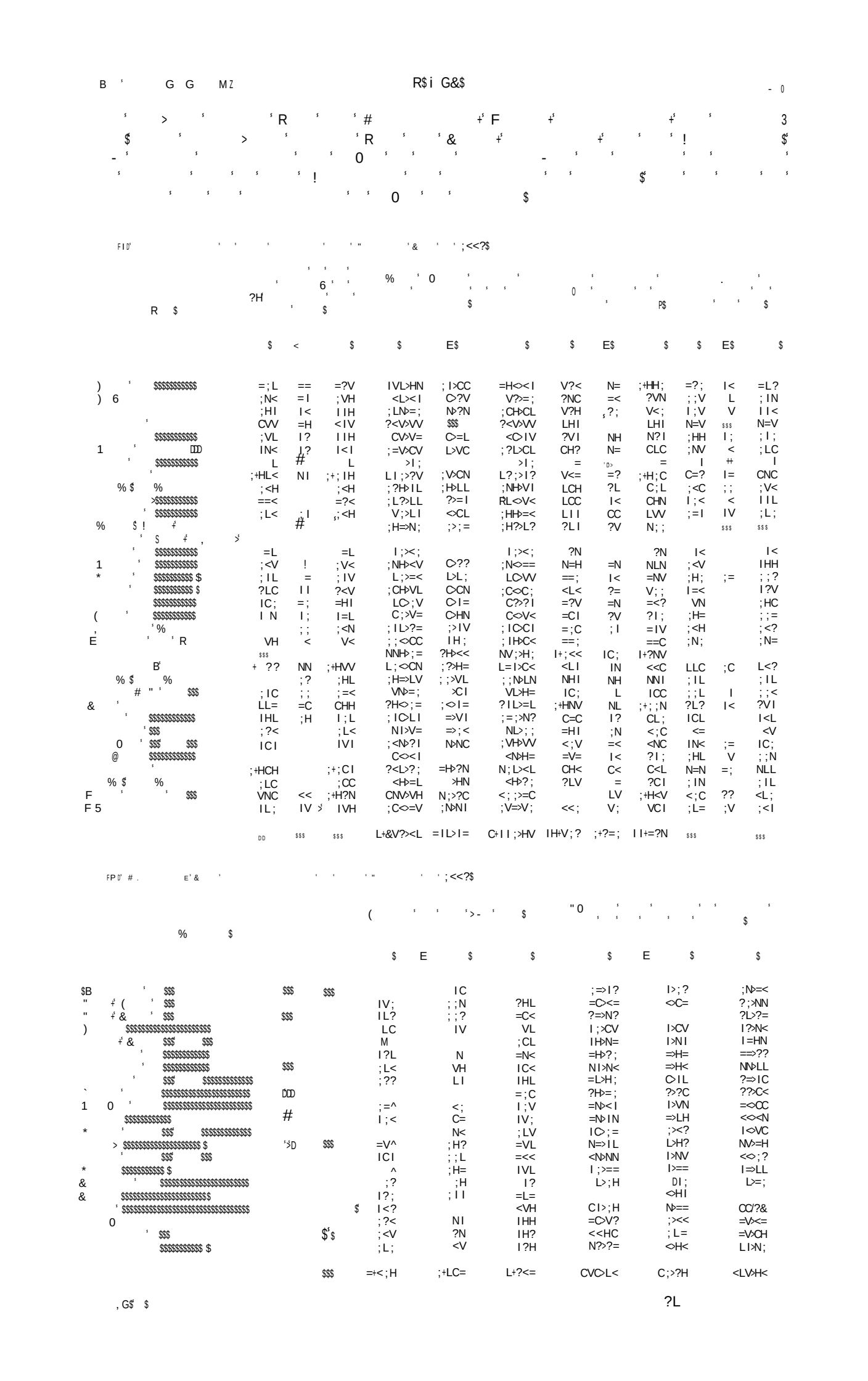

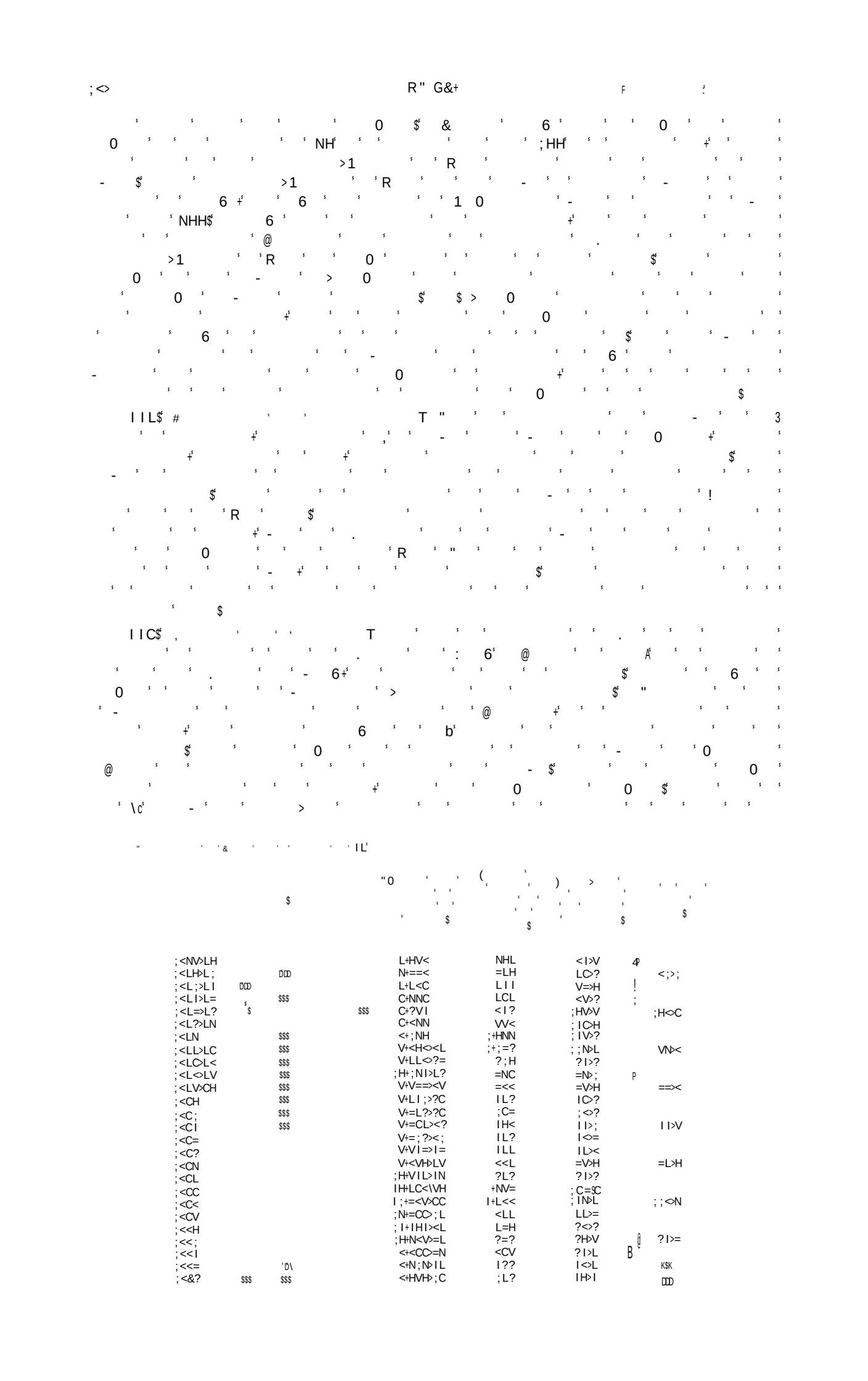

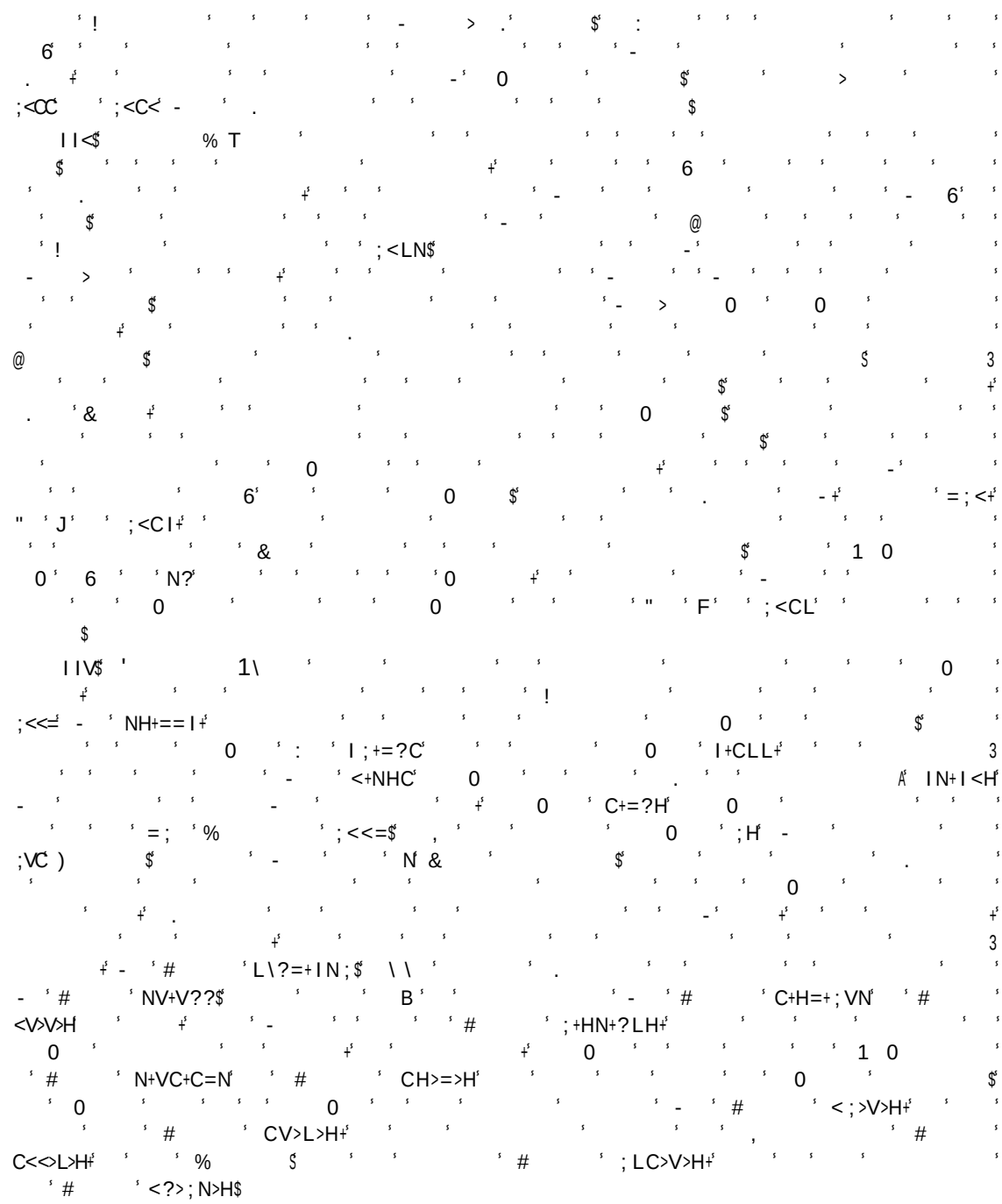

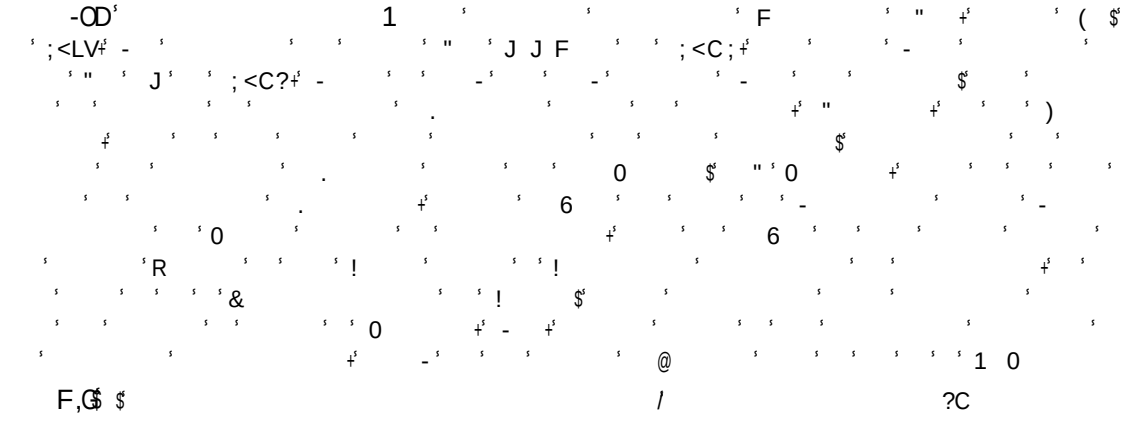

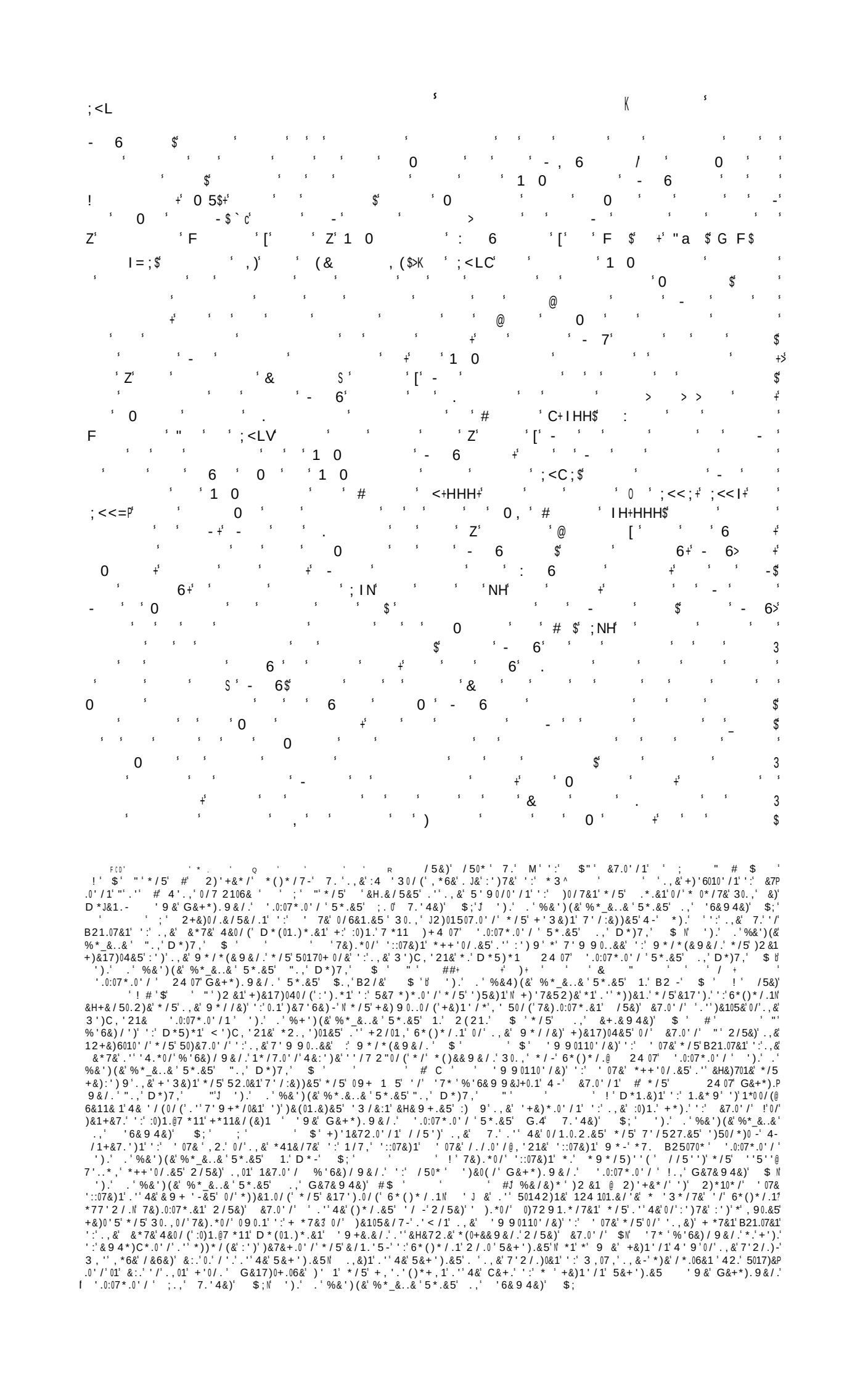

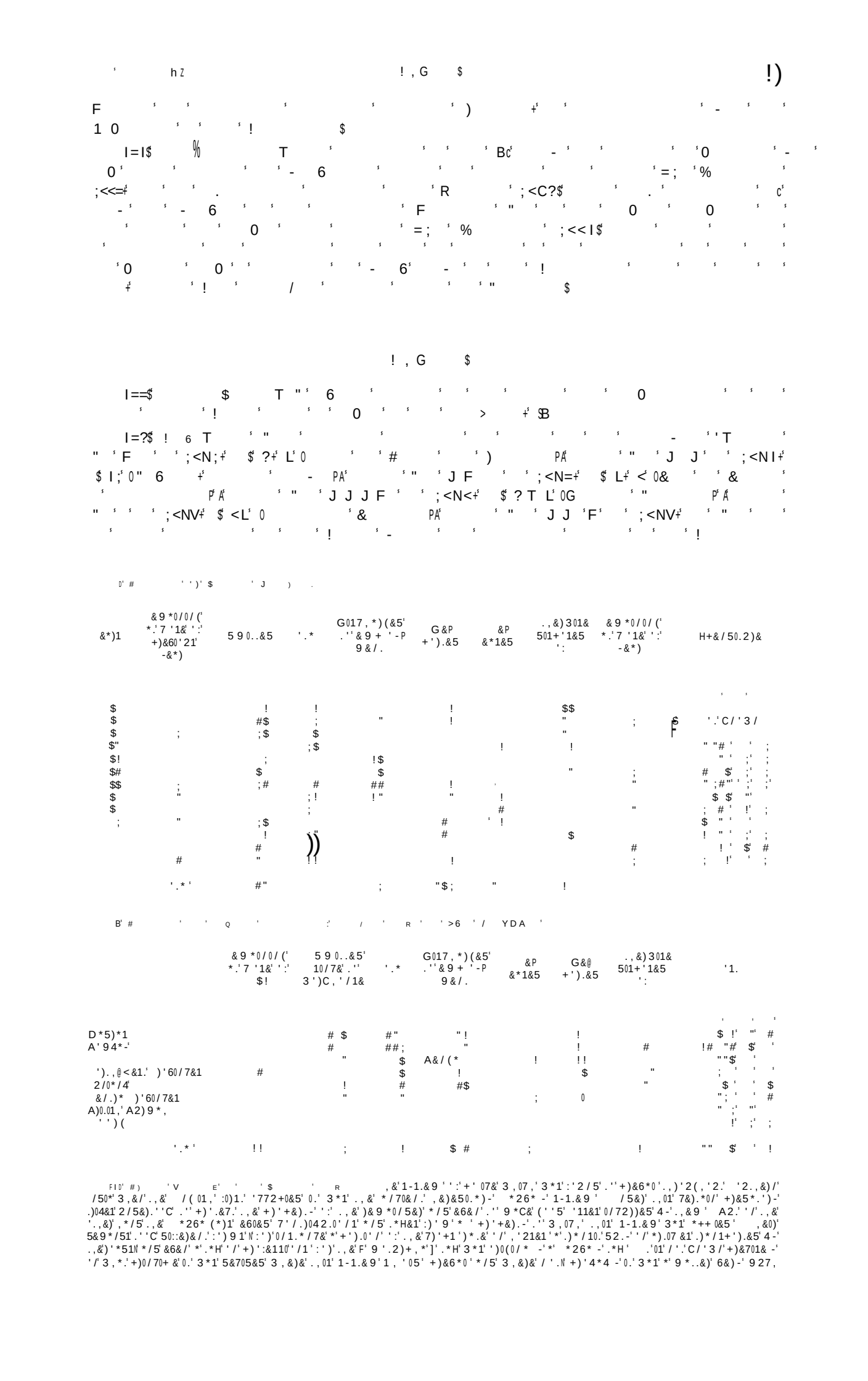

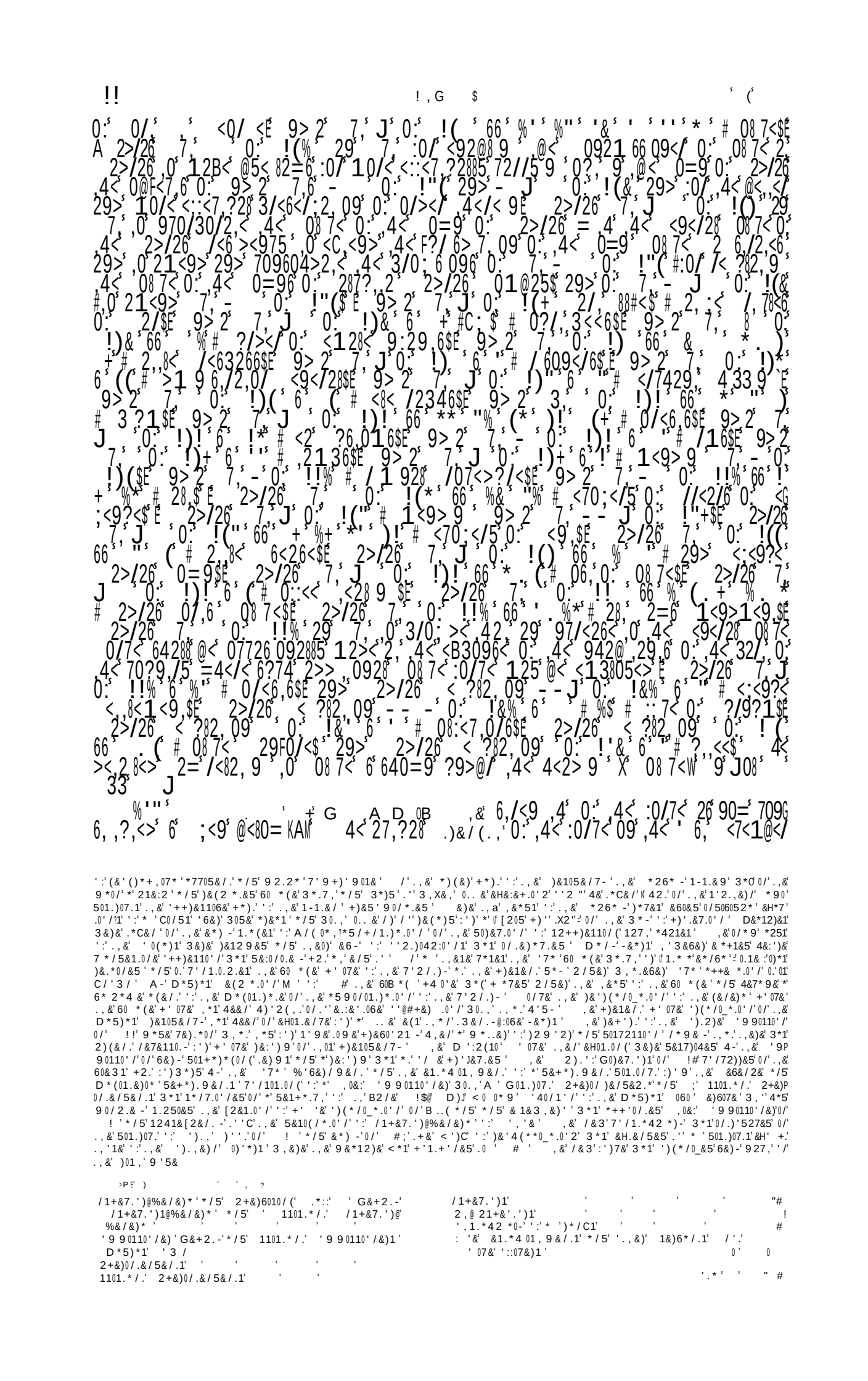

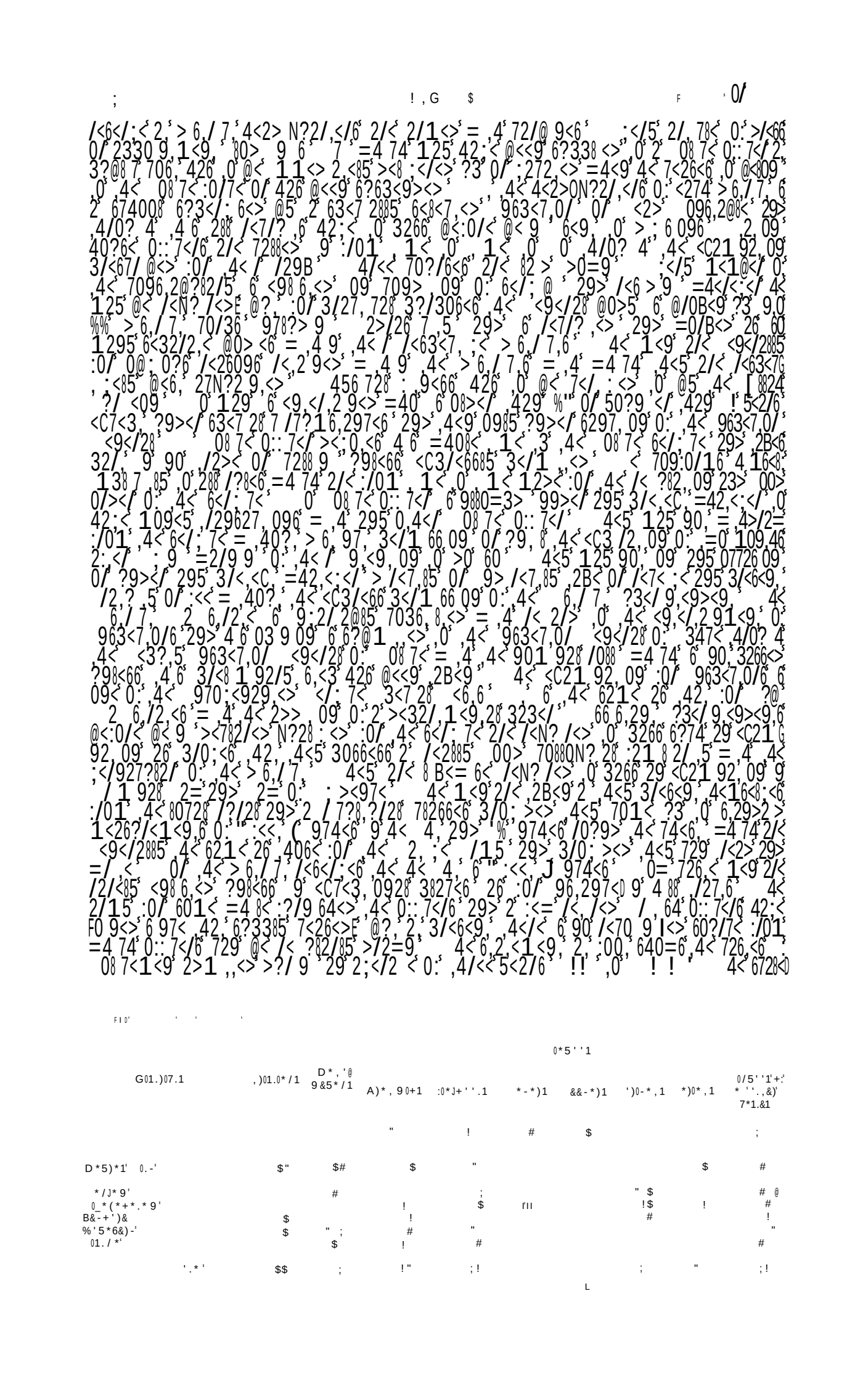

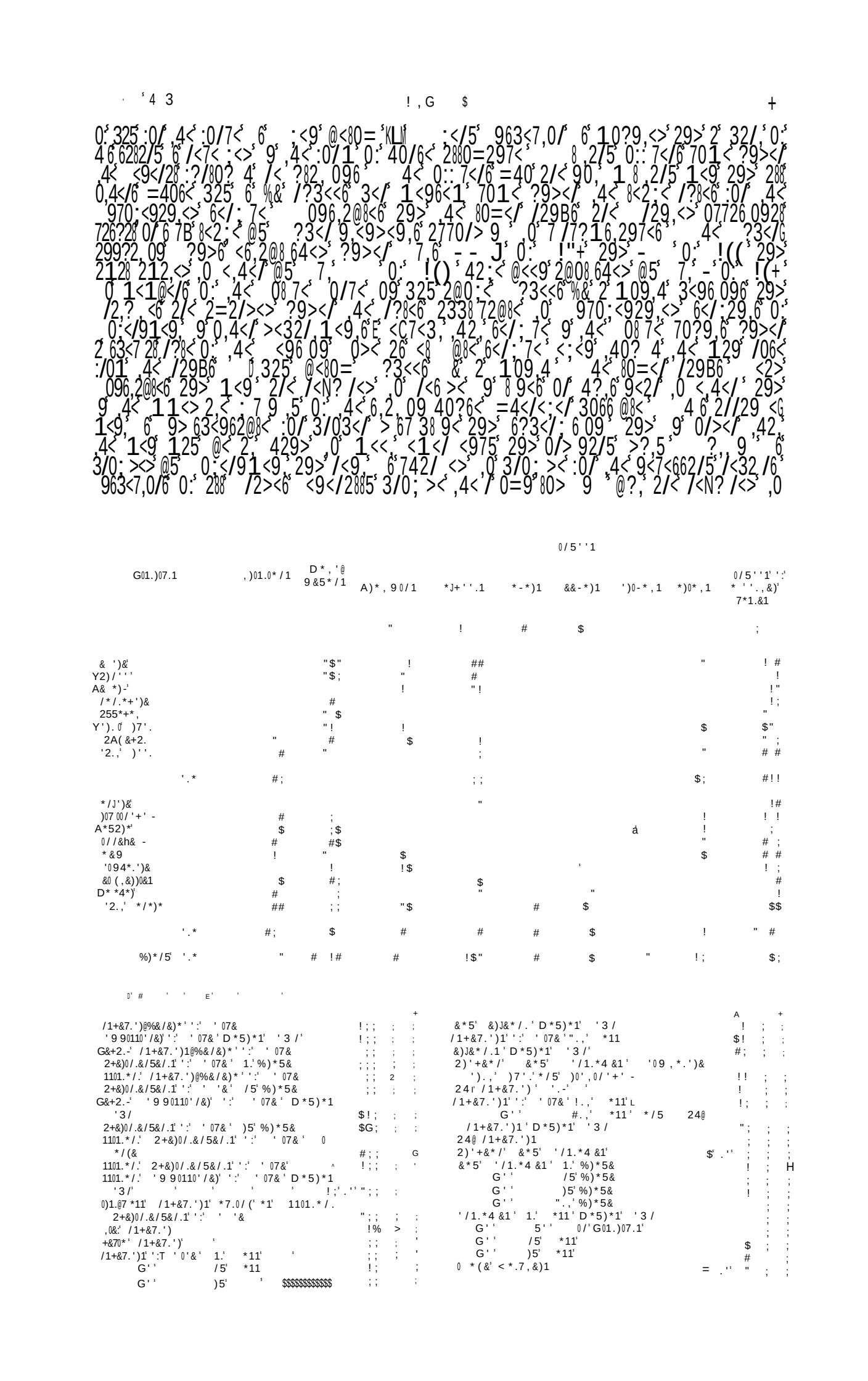

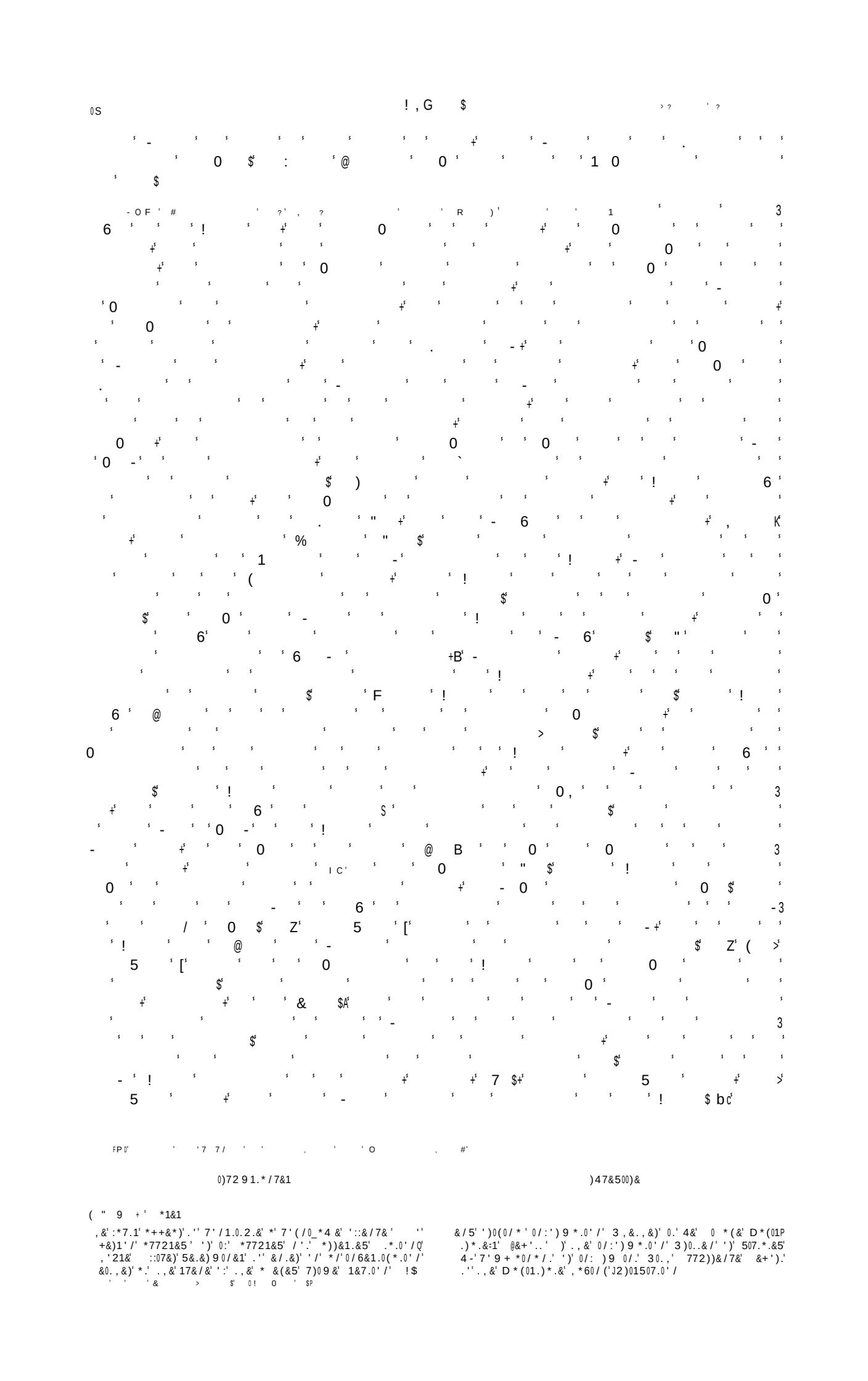

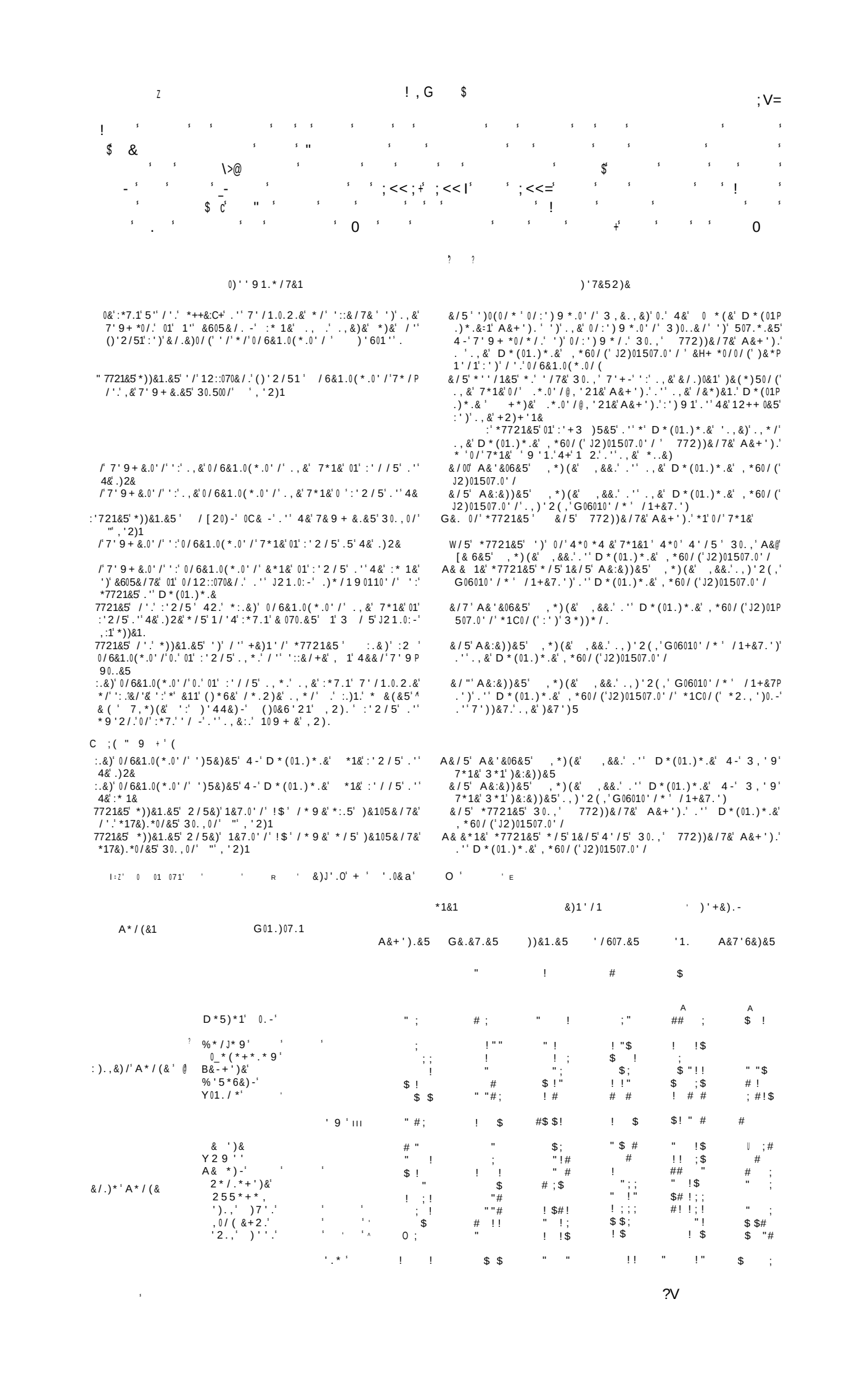

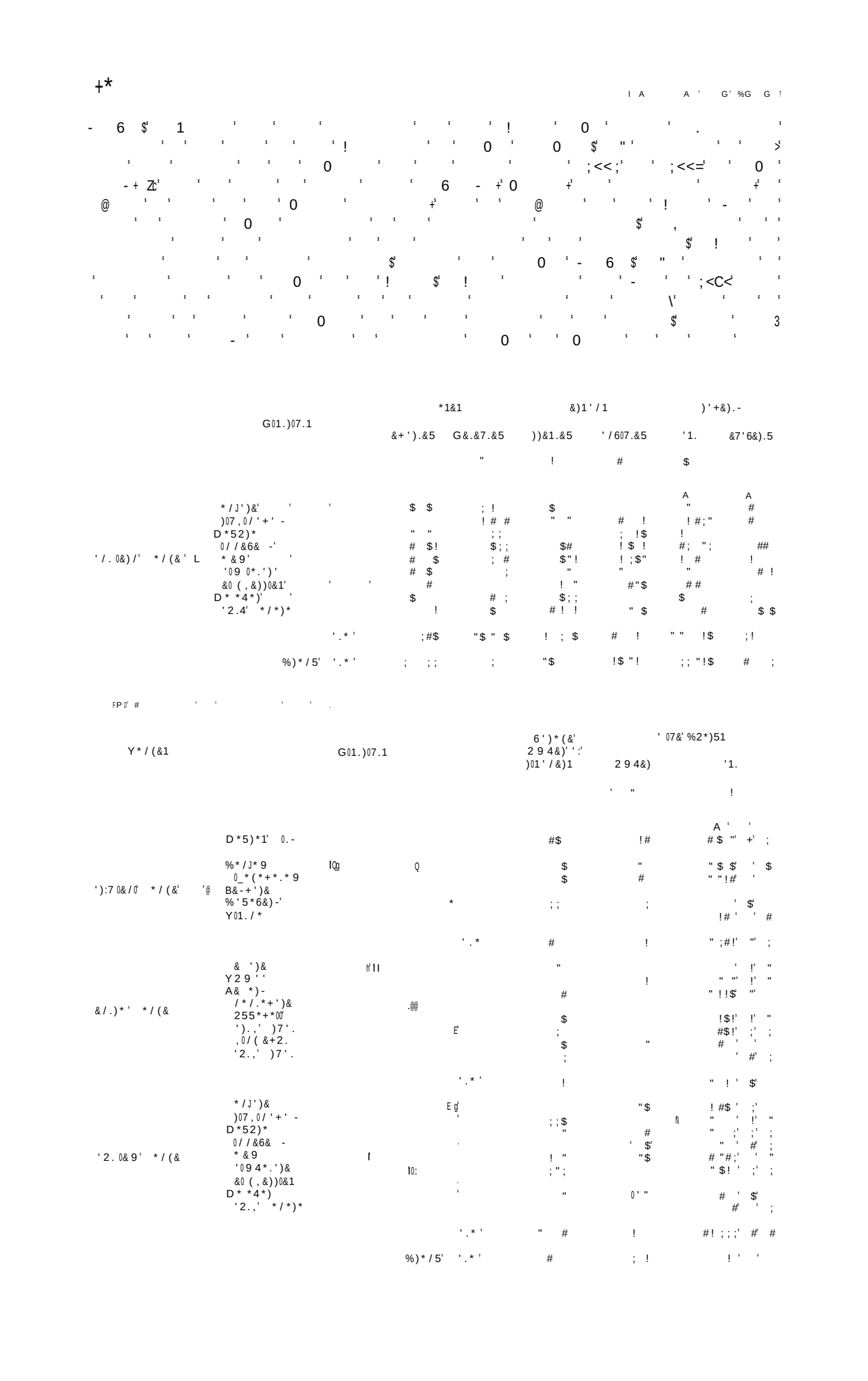

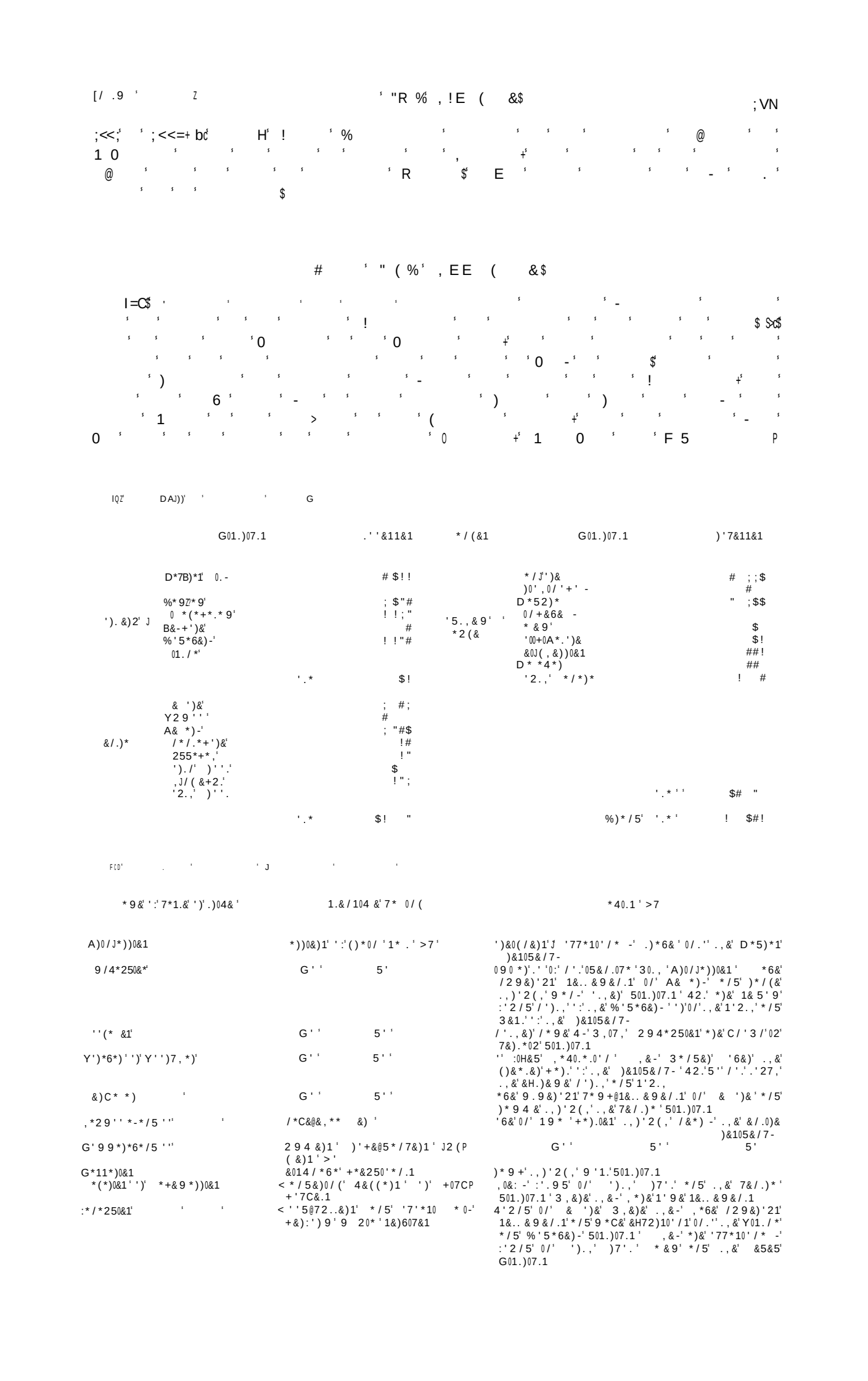

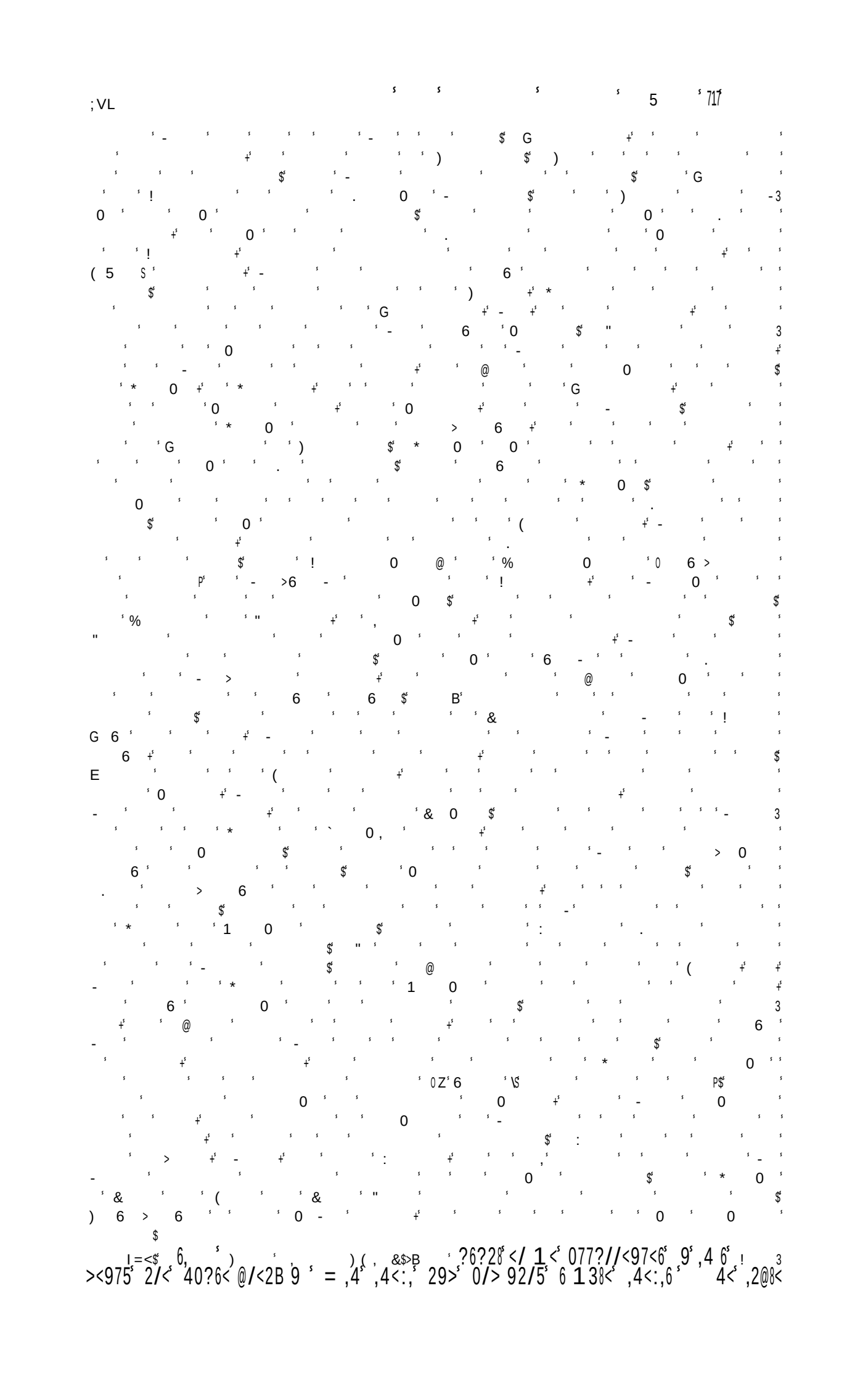

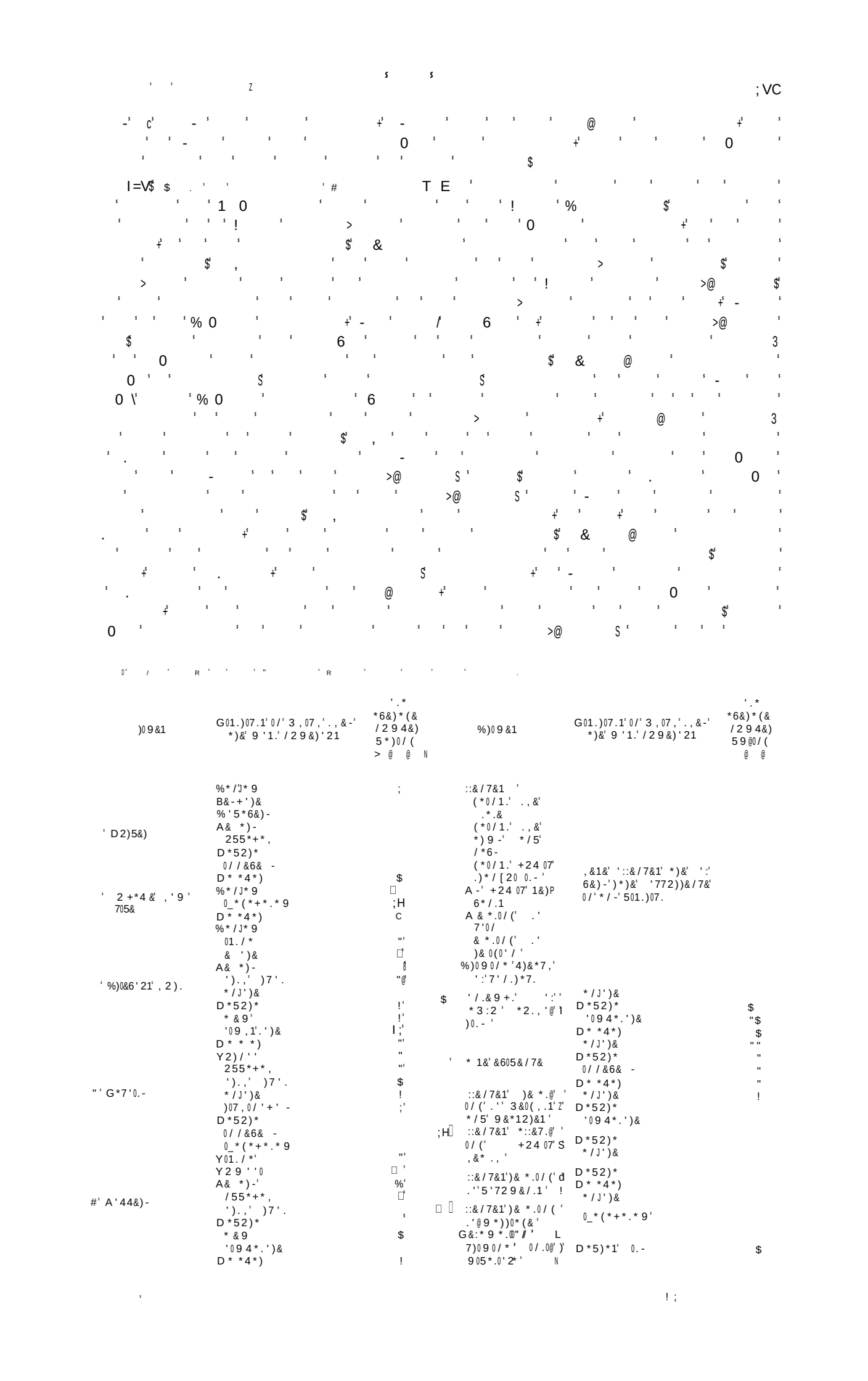

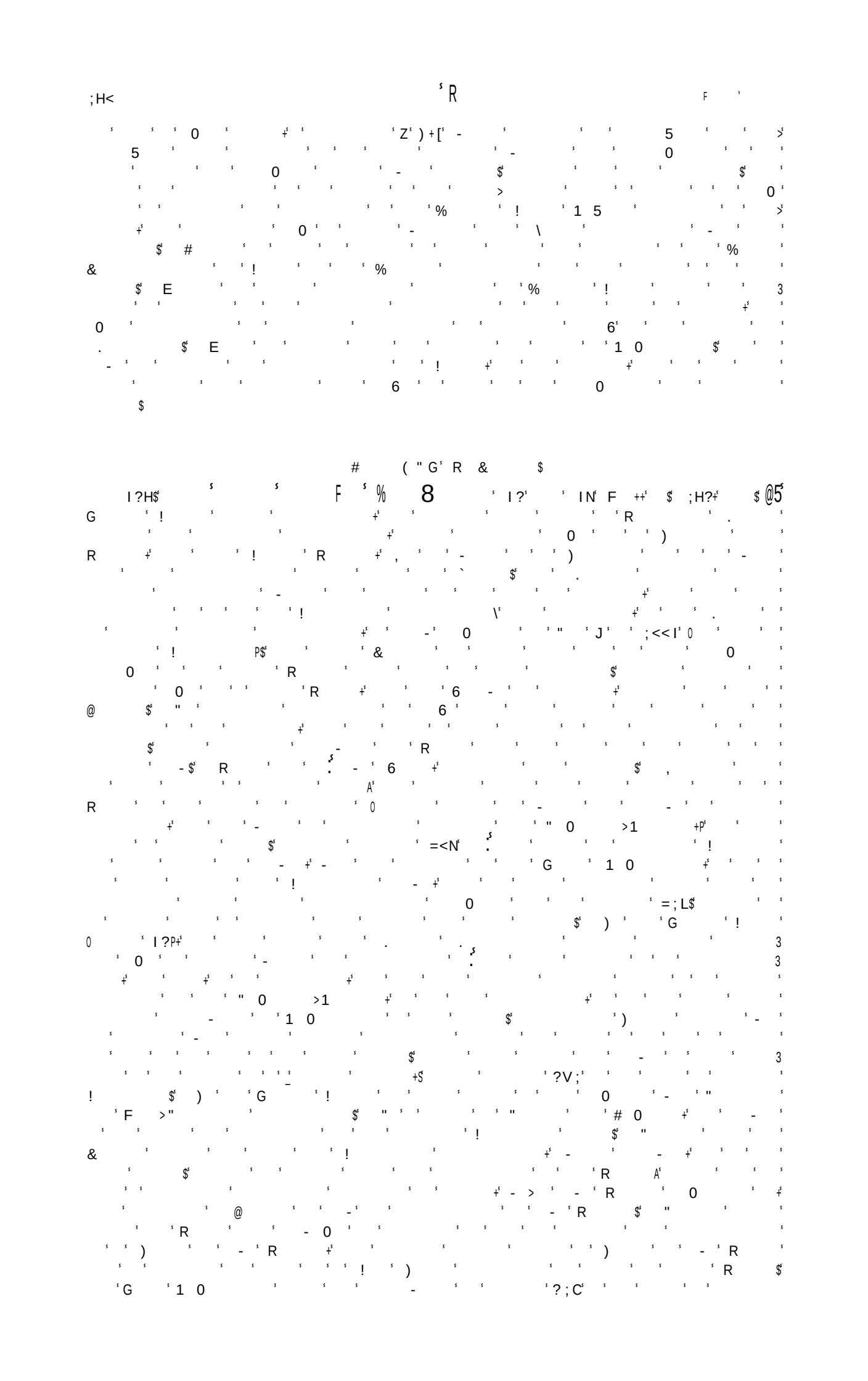

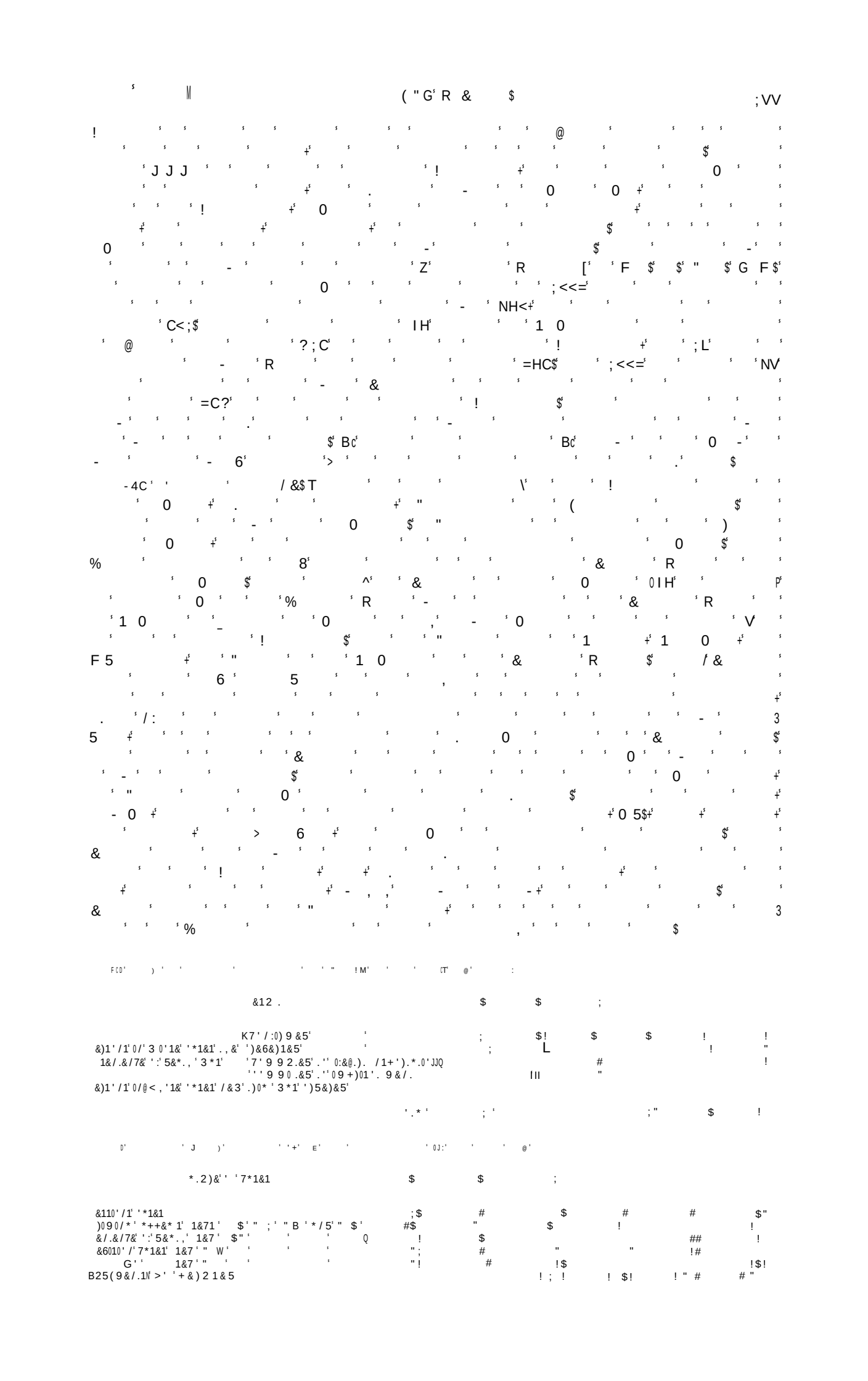

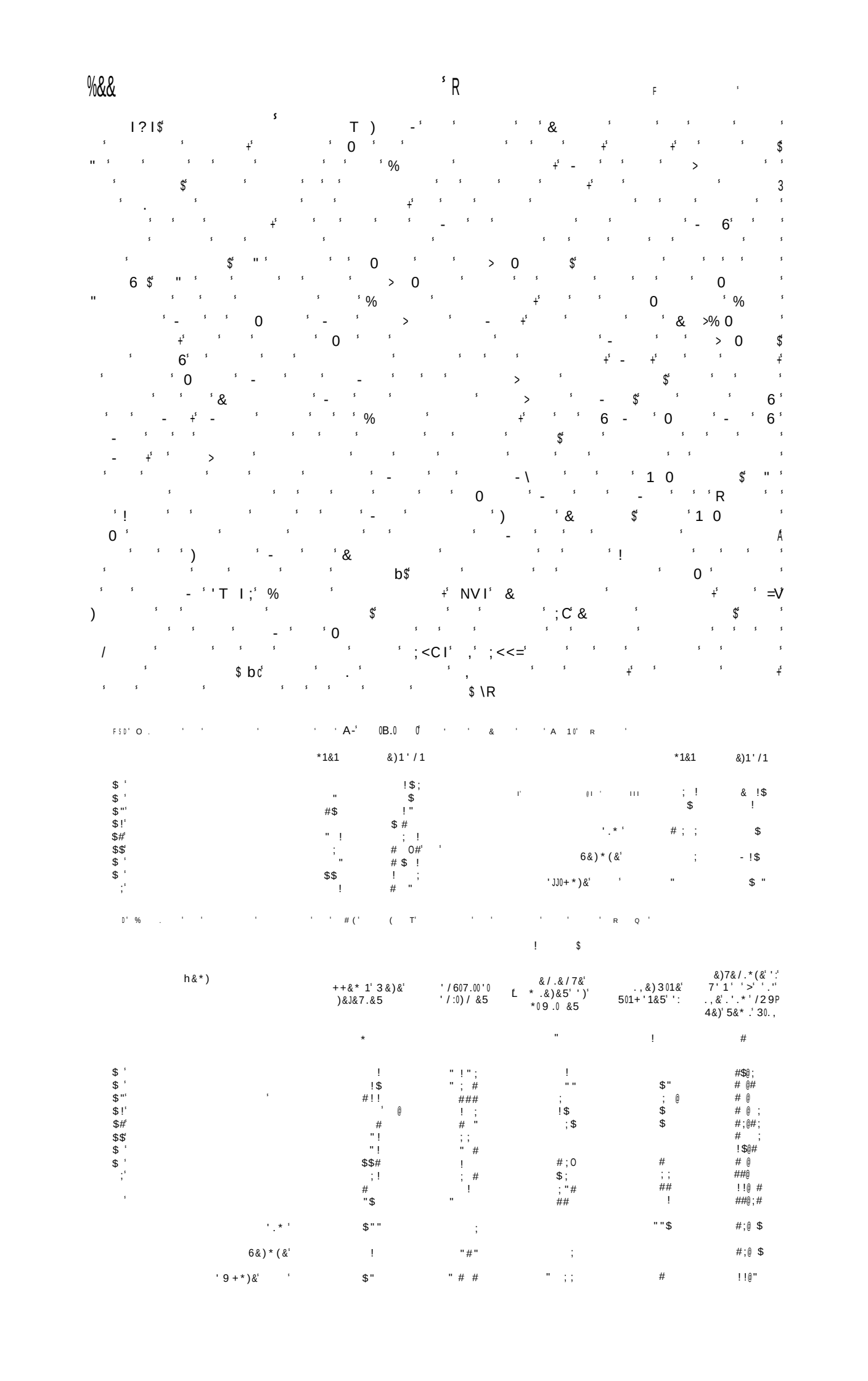

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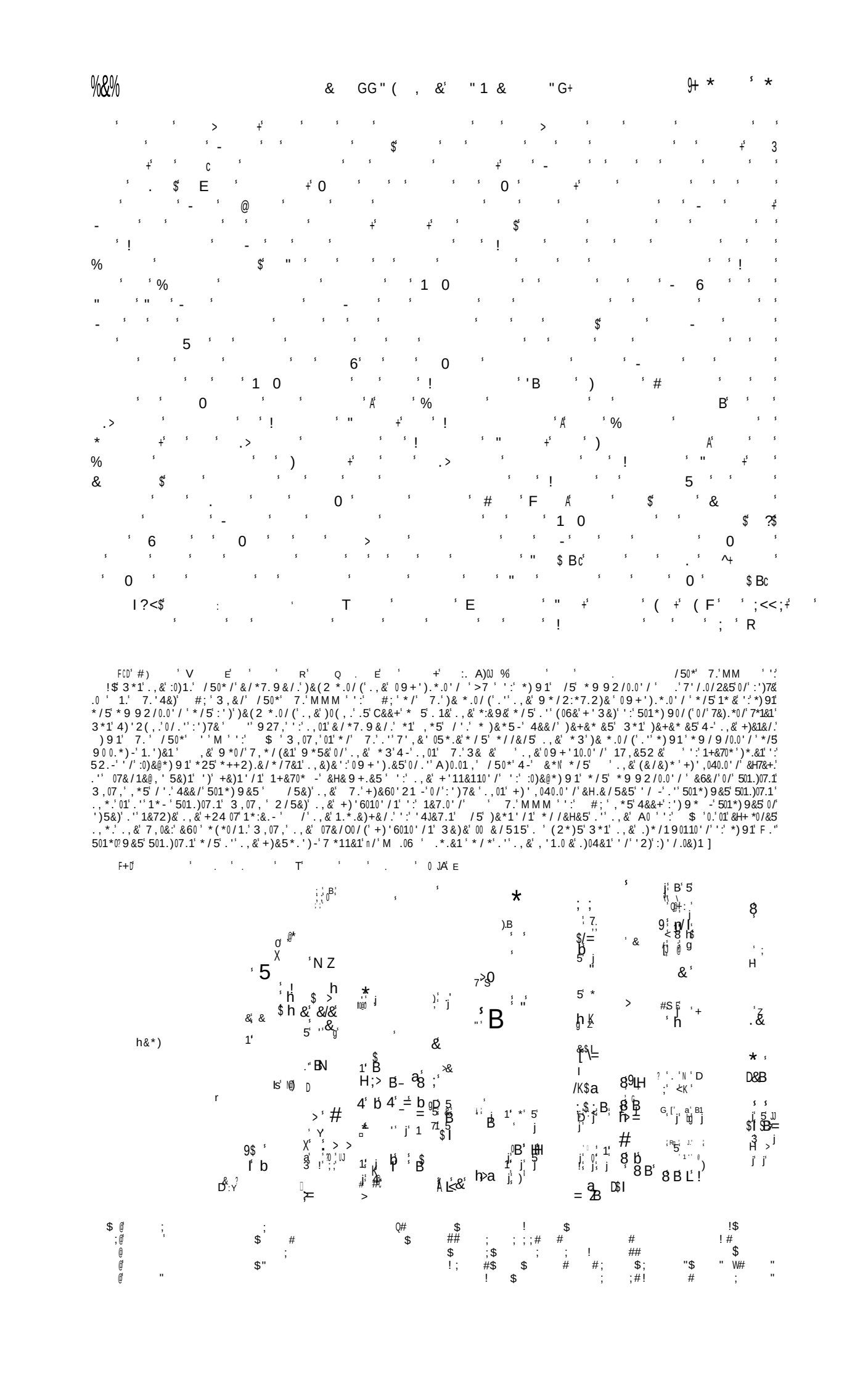

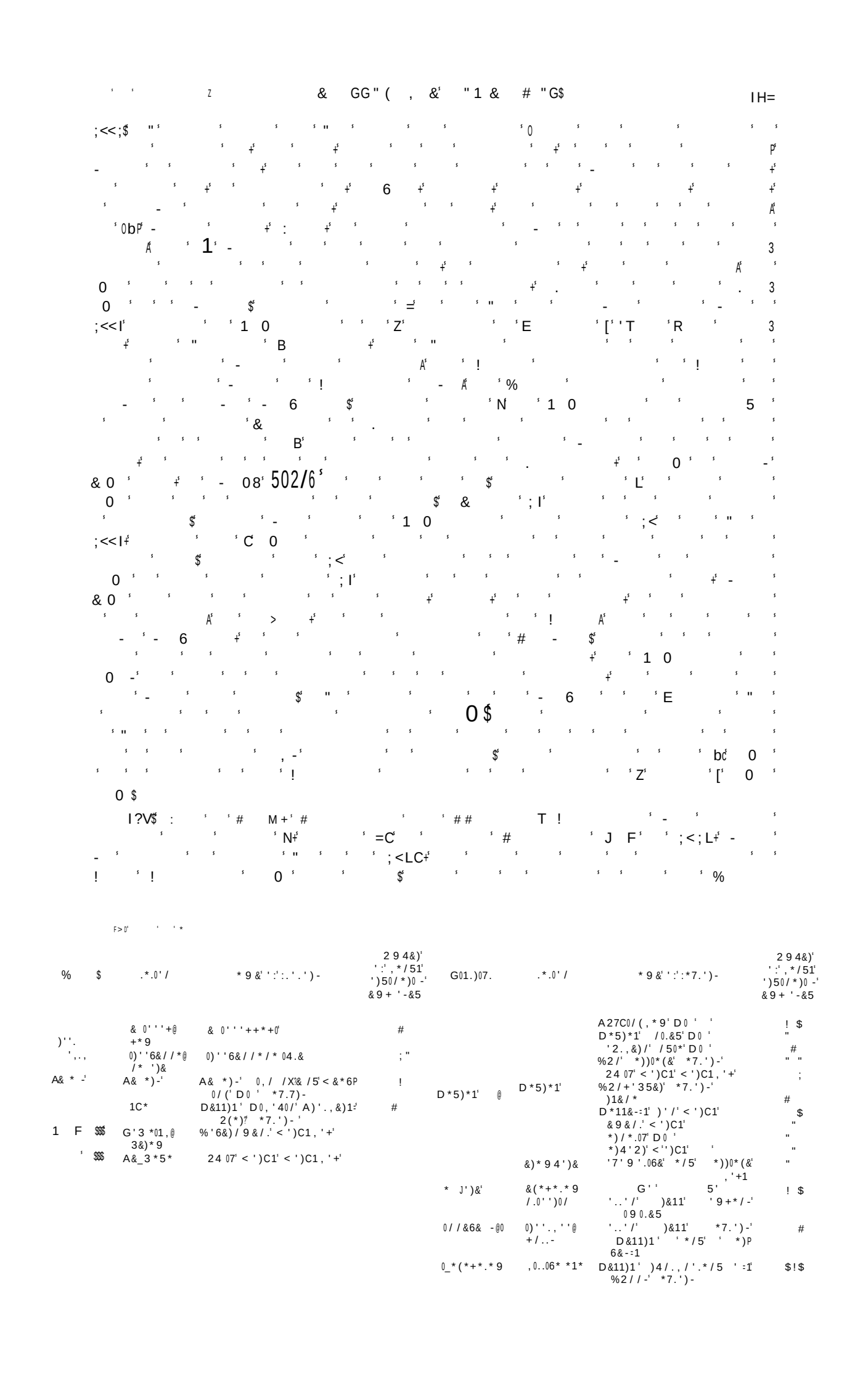

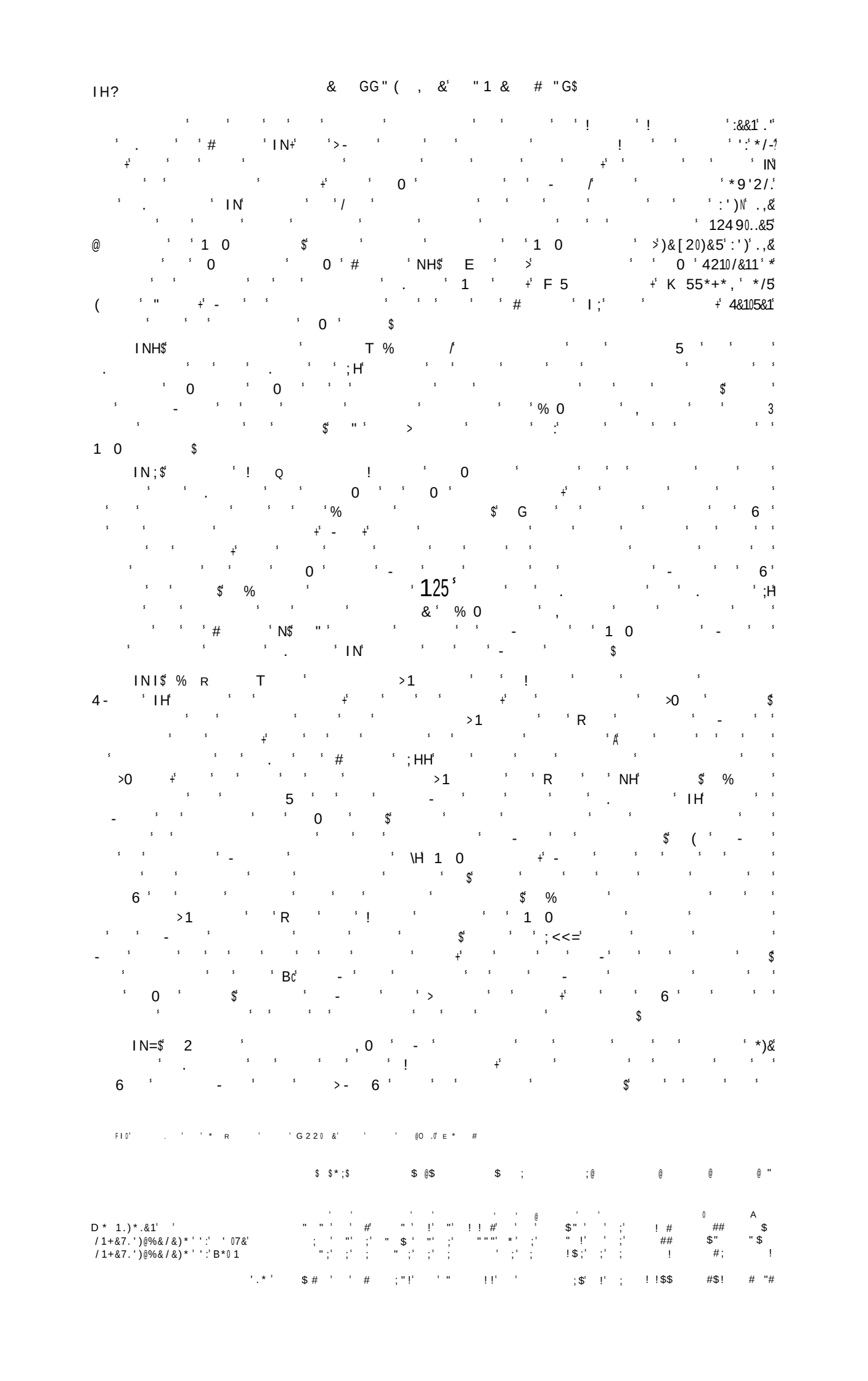

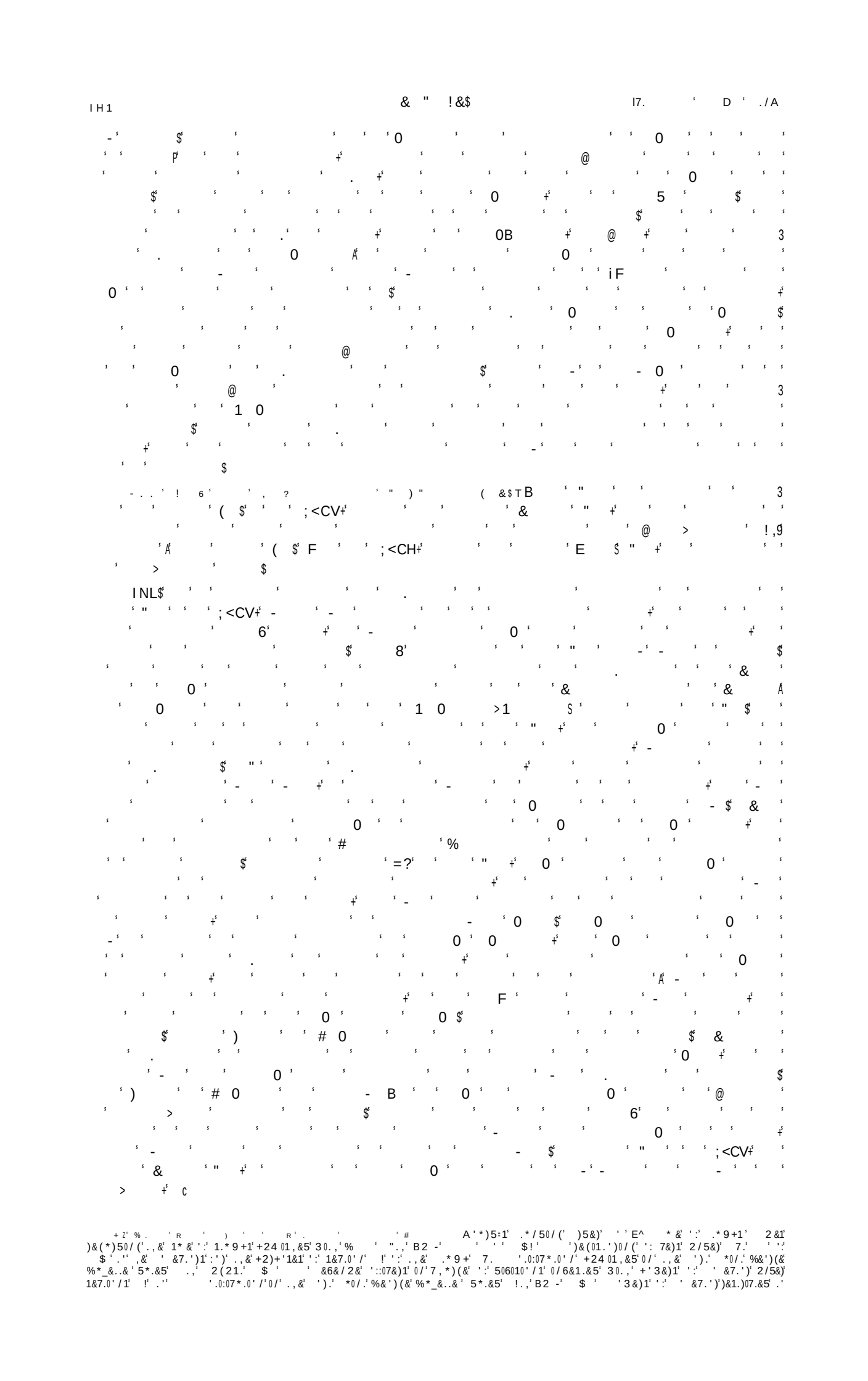

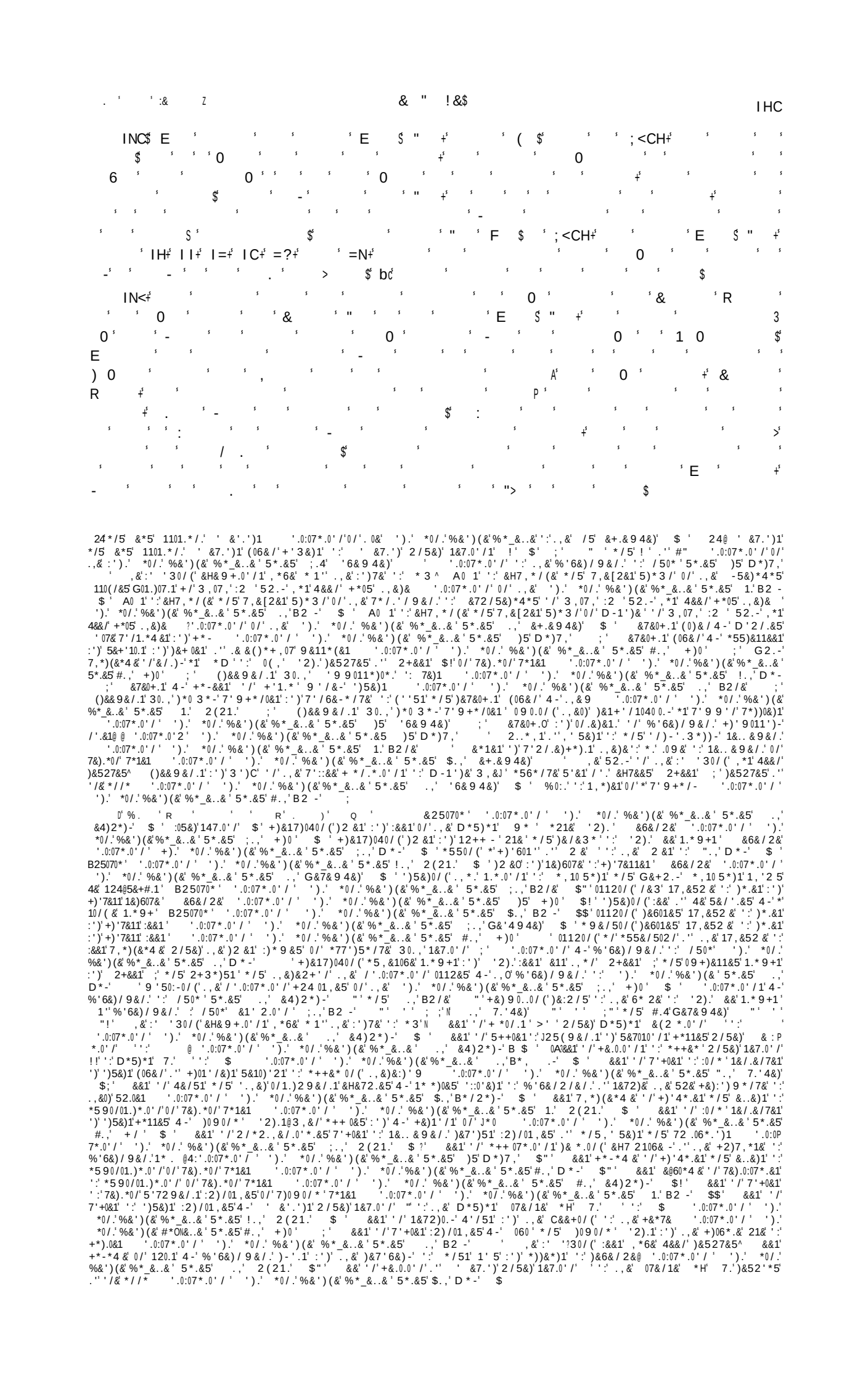

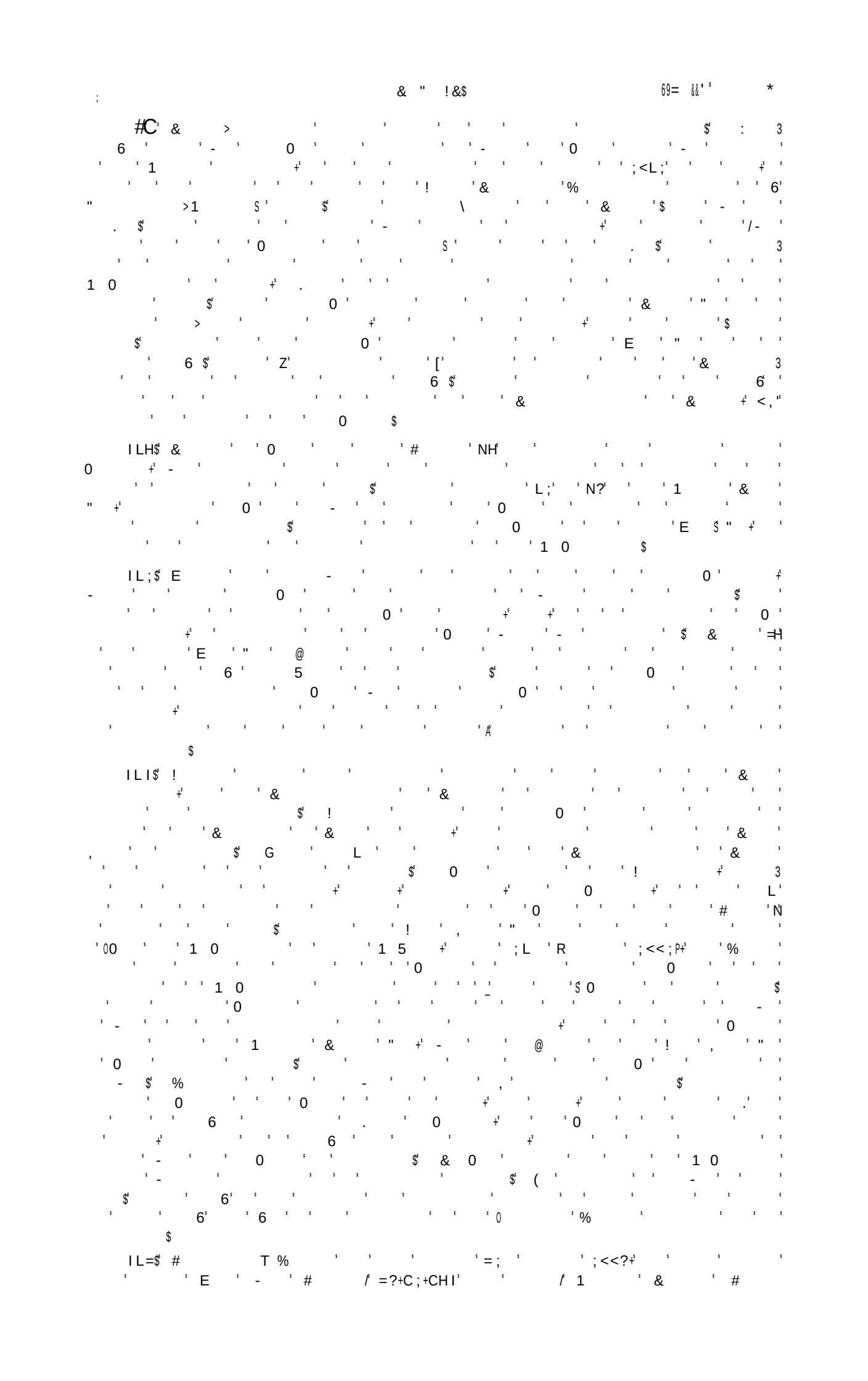

;V+VV+I ; ;+ 6 ' ' ' ' # ' L?+CH+V ; =$ ' ' - ' # ' I+CH+H ; ; +
0 ' ' ' ' ' # ' NI+HH+VHI$ ' ' ' ' ' ' ' '
' ' 0 ' ' ' > +' B ' ' ' ' ' ' 0 ' ' '
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F G' R & $

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0 ' & PA' ' " ' J ' ' ; <NV+' $' ; L' 0 ' ' ! ' 5 ' '
E PA' ' " ' J F ' ' ; <LV+' $' ?+' ; ;' 0 0 ' ' ! PA' ' " '
F ' ' ; <CH+' $' L+' $' +' ($' ;' 0 P+' 0 ' E PA' ' " ' J J ' ' ; <C ; +' $'
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' , PA' ' " ' F ' ' ; <C<+' $' ; C' 0 ' 0 PA' ' " ' F '
; <C<+' $' <' 0LP+' C ;' 0NP+' 0E PA' ' " ' F ' ' ; << I+' $' ; =L' 0 ' ' ! 3
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J ' ' ; << I' 0 0 ' ! PA' $' " ' ' ' ; <L?+' $' N<+' NV' 0# 0 ' '
" ' ' # 0 PA' $' " ' F ' ' ; <LN+' $' C<+' <C' 0# 0 ' ' # PA' $'
" ' F ' ' ; <LL+' $' ; +' =+' <' 0 . ' & 0 ' ' ' # $' F ' ' ; <= ; PA'
$' " ' ' ' ; <CH+' $' IH+' I ;' 0 ' ' ' E P' A' $' " ' ' ' ; <CL+' $'
L+' L' 0" ' ' G ' # 0 PA' $' # $' J ' ; <II+' $' ; L' 0 0 ' '
" 55 " PA' $' # $' F ' ' ; <= ; +' $' =' 0 '
, PA' $' # $' ' ' ; <= I+' $' I+' =' 0G P$' ' ' - ' ' -
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' ! ' R A' ' ' R ' ' ' ' ' ! ' R ' '
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+2)*9' 94>1*925)*9' /(>50+2)*9' /J&G(' ')0-*2)')/0' 1C*'A*5*(*)*' A +*. *' A& *)-' A&),*9+')&' A&_@'
605*' A09 0+*.*00 ' * 072.' */ /*/')&' D6*C>5' ,07*7' &' ,05*94*)*9' D/(&+2.' ,0..'')' '7*/*5*' '094*.')&'
''/5*+'')' 255* ')&' ,55*+*,' 29429' G0250(2 ' ')&' 9C5')'5&'%''.-'%25*.0)'%2/.,)'Y*):)'Y>1*)*(45'
Y>6*0'Y' &(> 'Y)01, /*(0)0'Y20.* *0' Y294*C4/*9' Y29'' ' D*5*/*+* &' D*5)*1' D*52)*' D*/*/.'55-' D*/(*P
')&' D*//>)(*50' D*1/0+*.*9' D"-*6*)*9' *9*C* ' */5*:0)' */5-C ' *)1"+2)' &(*+*.*9' & ')&' /('&'
'.*7*9//5' * *9''..*,' (,*.' * /0' *.2C5.*' *)*9*C250' >)6*.0+2)' &550+2)*9' &/2C'/5*' ''/*9* &&'
)'55/./)' \20*/50' *J*,92/5)-' * &9' 06*(*/(*' ,0-00' ,'0/(,2)')06*0C//.,*9')60 0+2.5' . ' ,'9*1-'
D'2/.' *5+*.)0' *B0+*)*94*' */J')&' */2C2' &CC*0' & 07,&))-' 0//&6& -' 0)2C'02)' 0)/9*/(* *9' 0)2+*.0'
0)2+*.2)' 0)2.2)*0+2/50' 0)26*)0)' 0965 2)' 0)26C50')*/[2&4*)')07,0/'+' -' 2.0'')0/' 5*9* +&.' 50+0'
*-0.)0' & ')&' 0 2+2)*9' 0_*(*+*.*9' 0_0*/*()*9')055,>7,* *9

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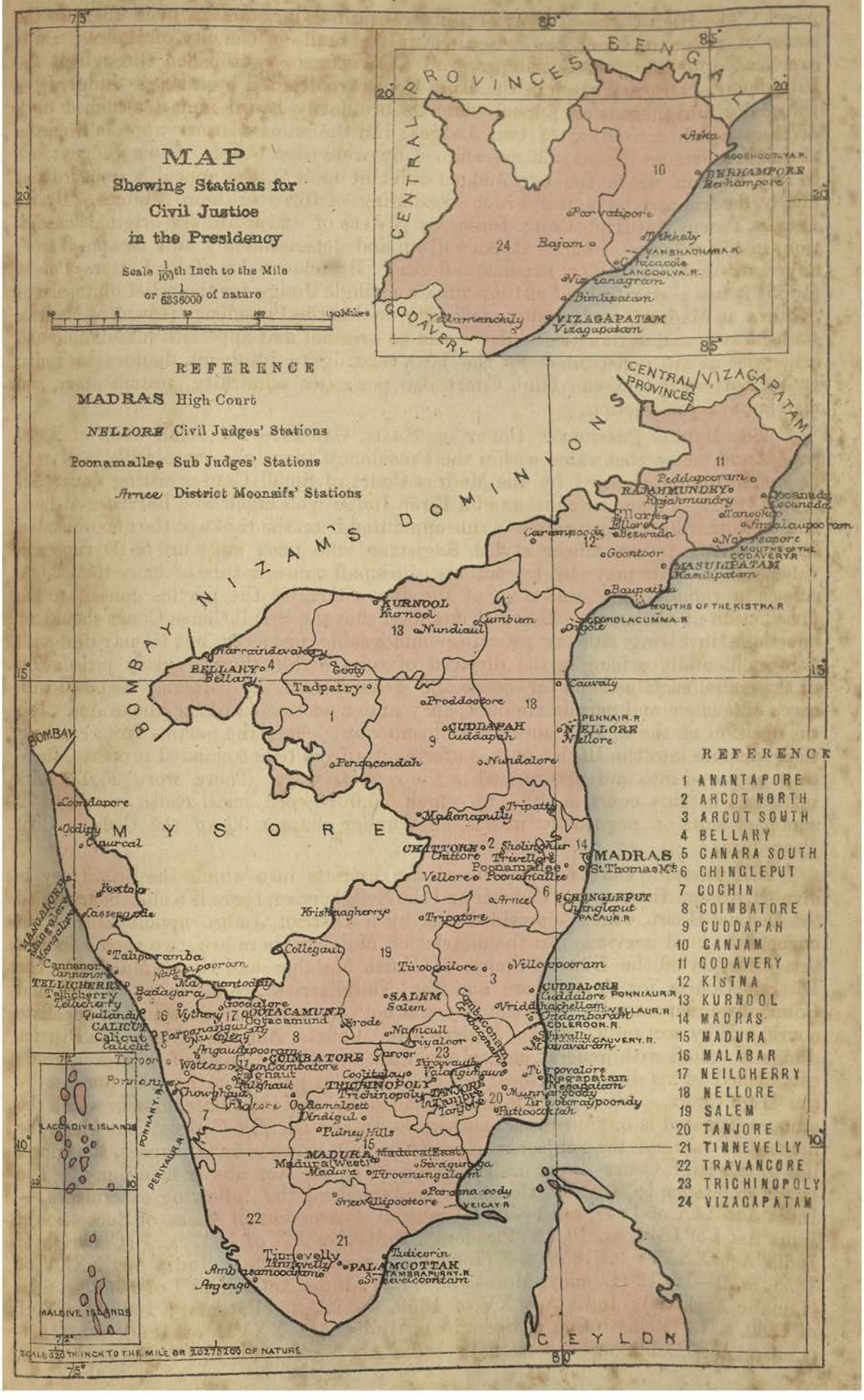
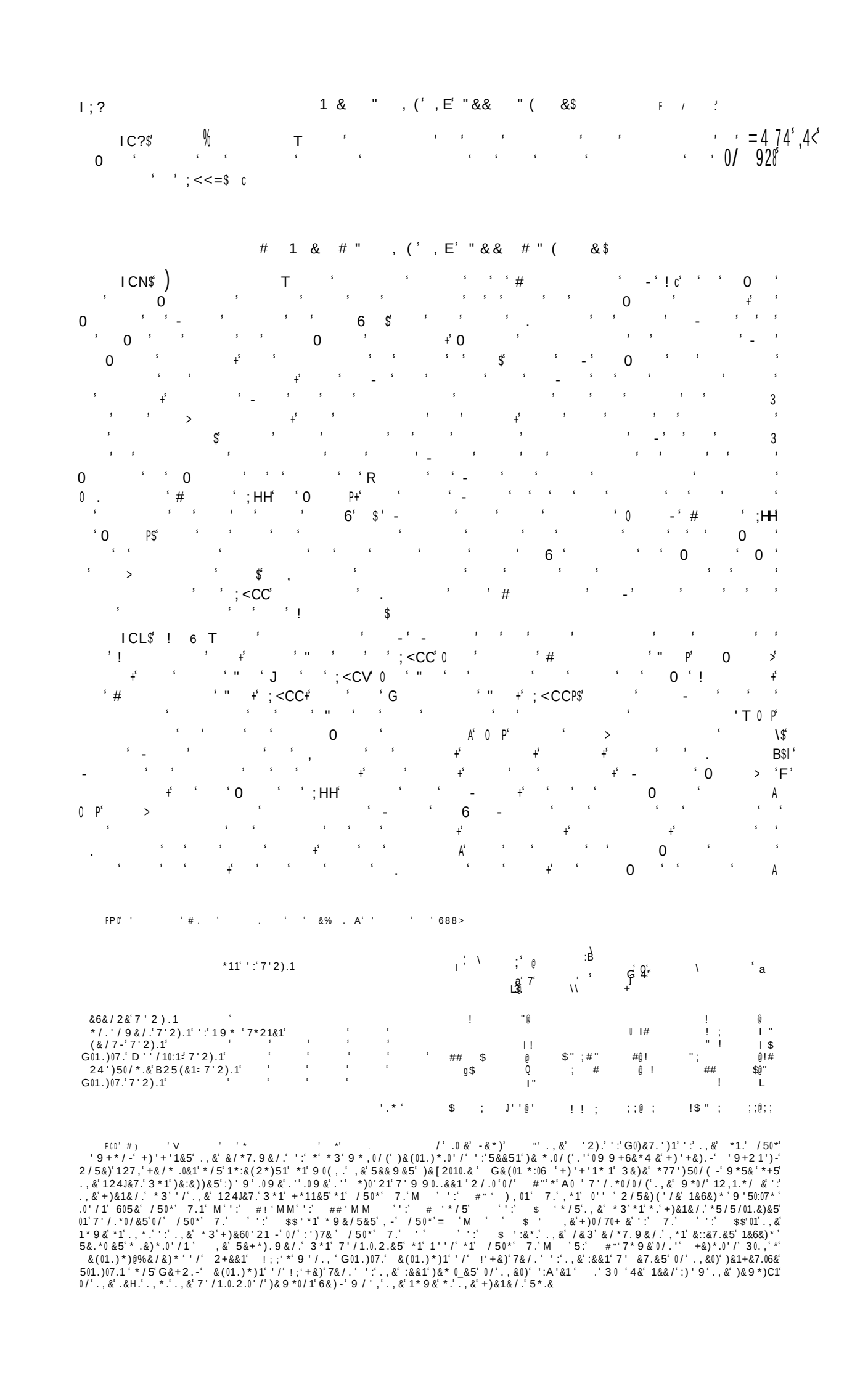
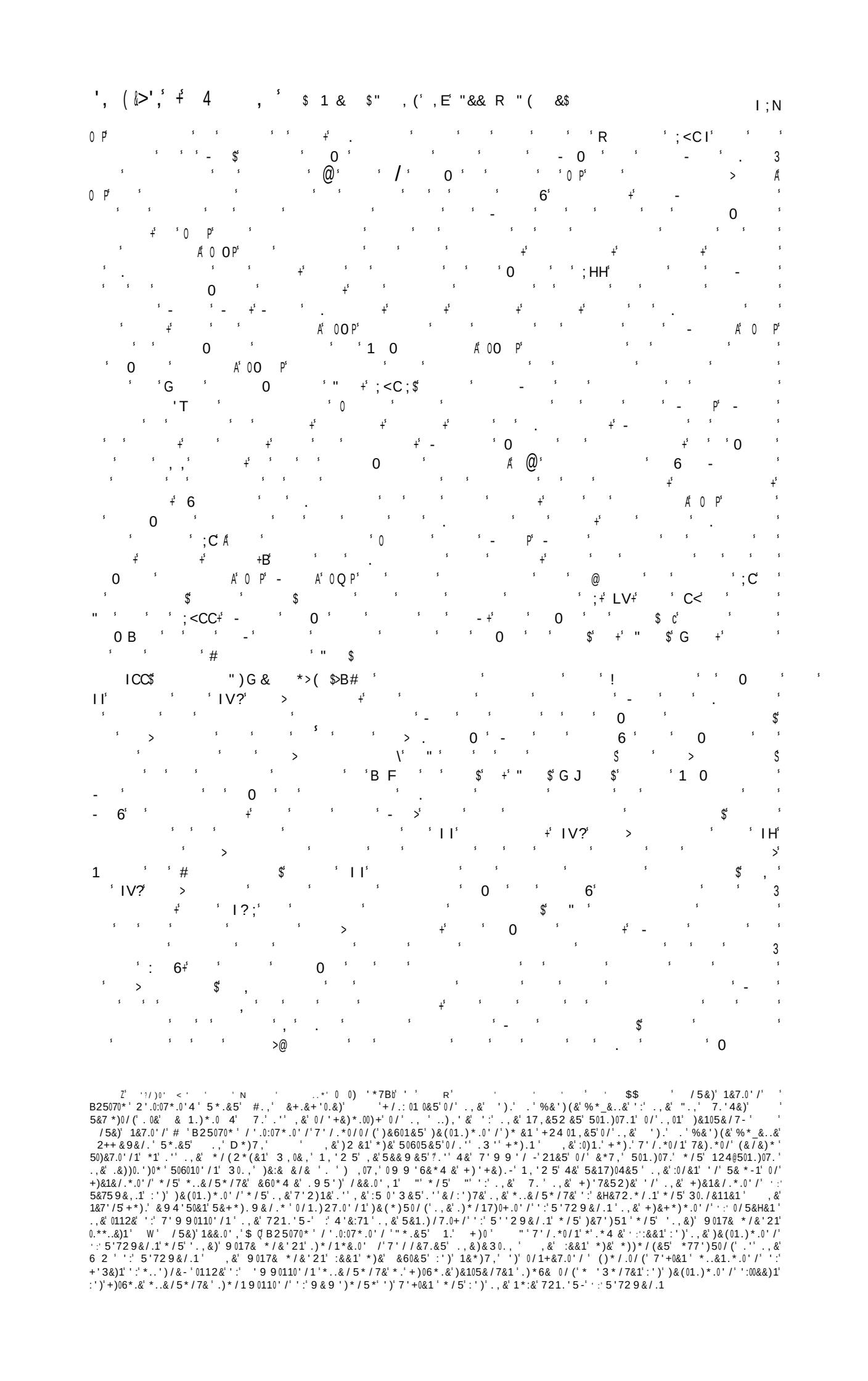
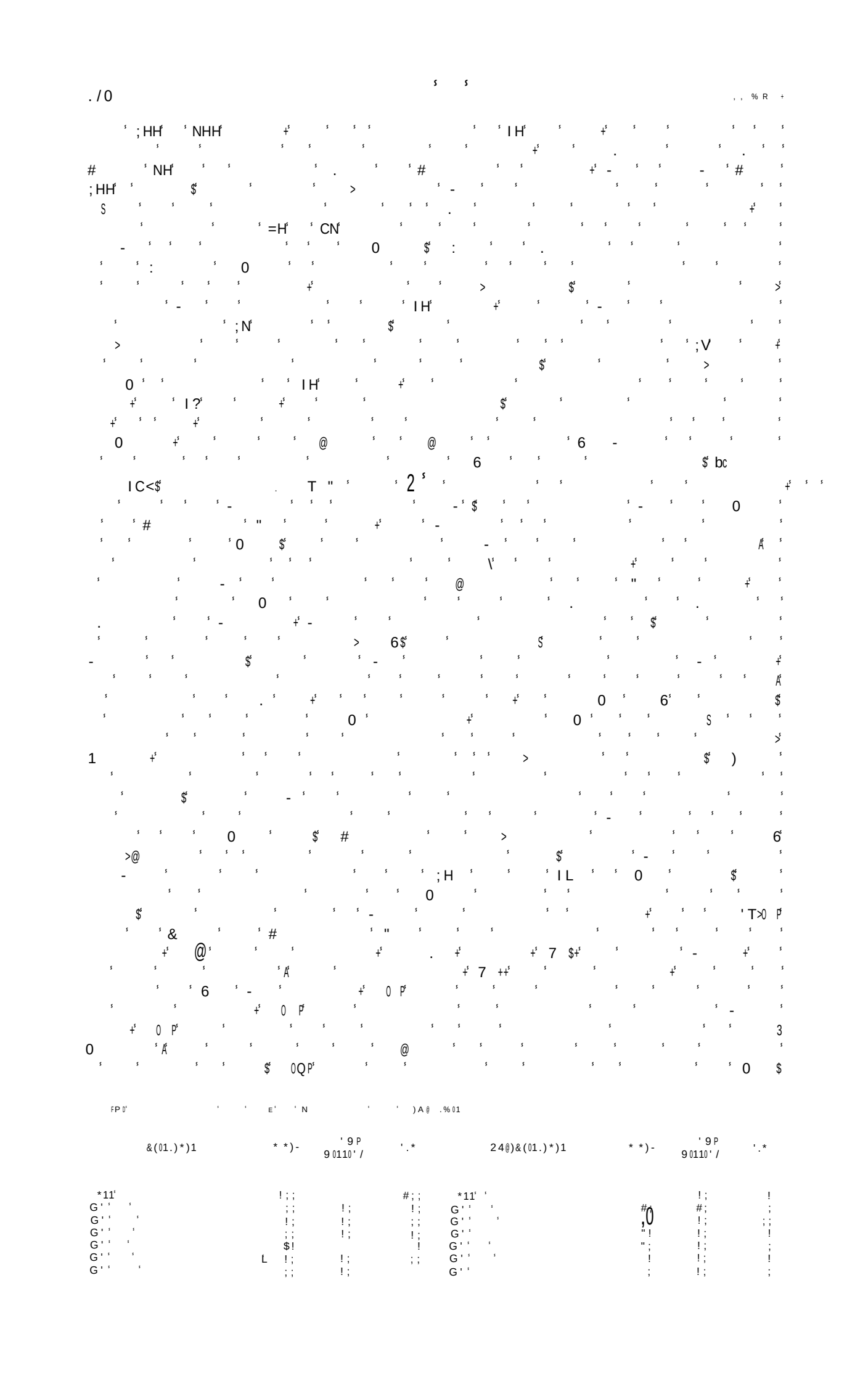
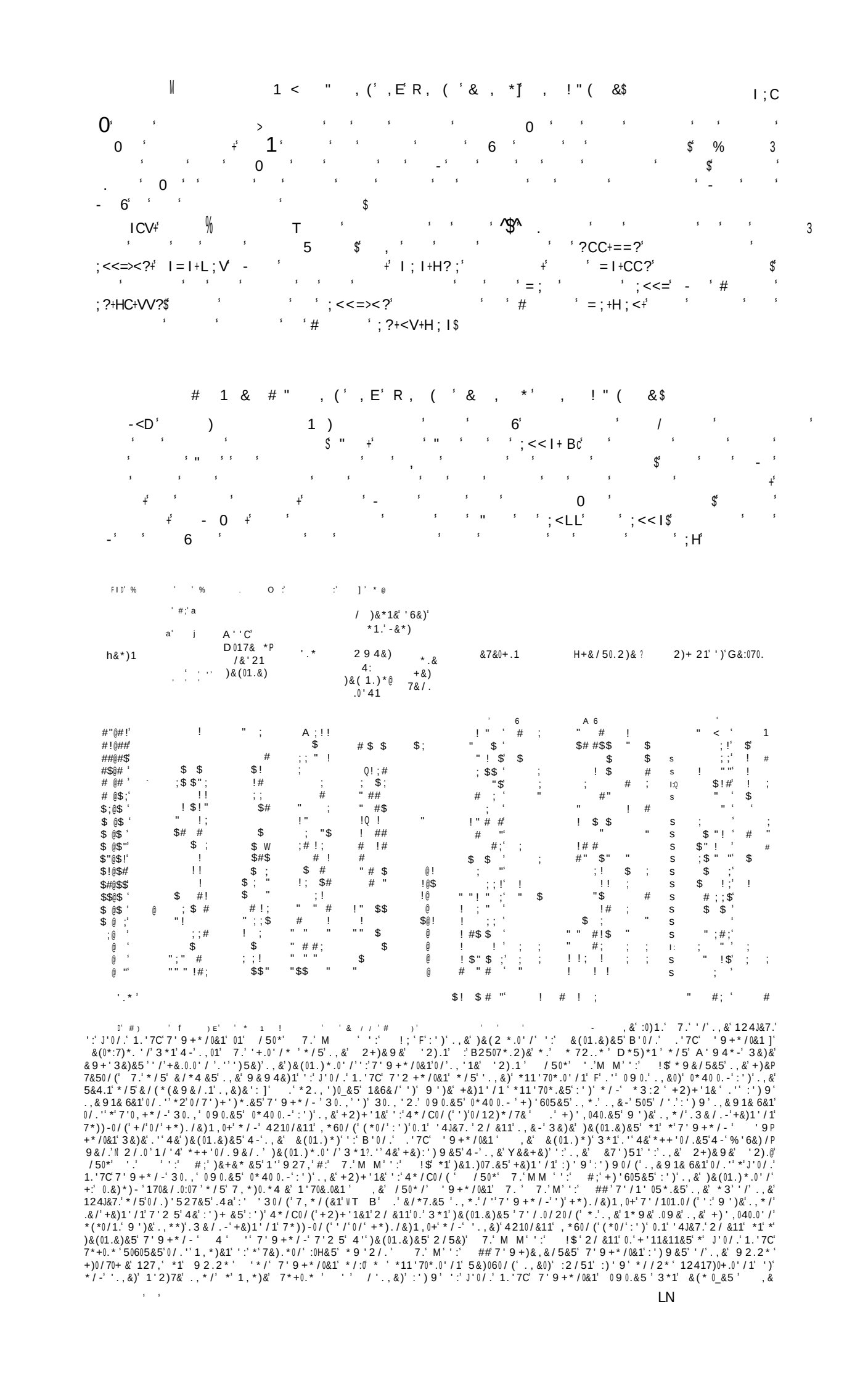
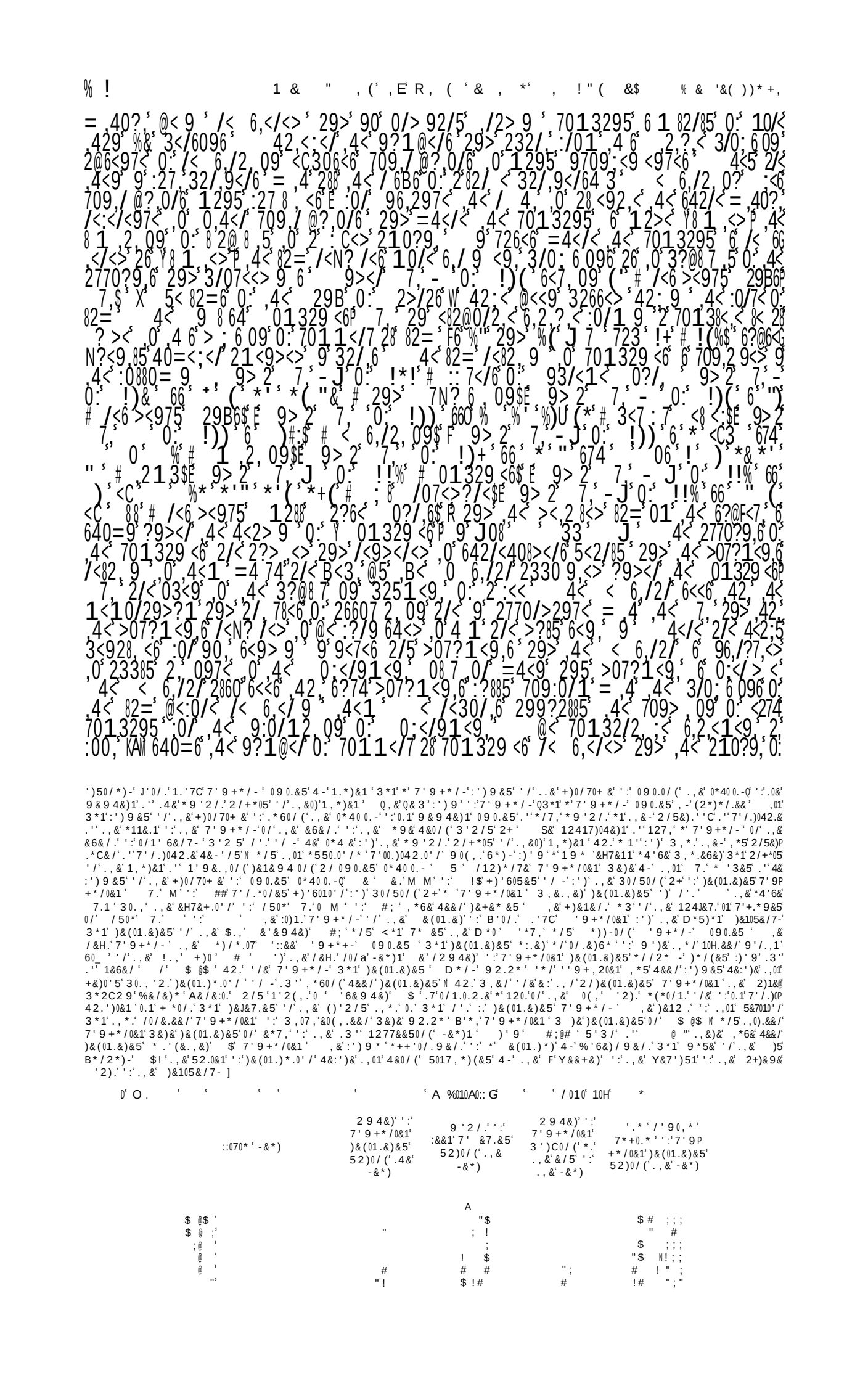

MAP
Shewing Stations for
Civil Justice
in the Presidency
Scale 1/100th Inch to the Mile
or 1/63360 of nature
REFERENCE
MADRAS High Court
NELLORE Civil Judges' Stations
Poonamallee Sub Judges' Stations
Arnee District Moonsifs' Stations
CENTRAL PROVINCES
BENGAL
BOMBAY
NIZAM'S DOMINIONS
MYSORE
CEYLON
LACCADIVE ISLANDS
MALDIVE ISLANDS
REFERENCE
1 ANANTAPORE
2 ARCOT NORTH
3 ARCOT SOUTH
4 BELLARY
5 CANARA SOUTH
6 CHINGLEPUT
7 COCHIN
8 COIMBATORE
9 CUDDAPAH
10 CANJAM
11 GODAVERY
12 KISTNA
13 KURNOOL
14 MADRAS
15 MADURA
16 MALABAR
17 NEILGHERRY
18 NELLORE
19 SALEM
20 TANJORE
21 TINNEVELLY
22 TRAVANCORE
23 TRICHINOPOLY
24 VIZAGAPATAM

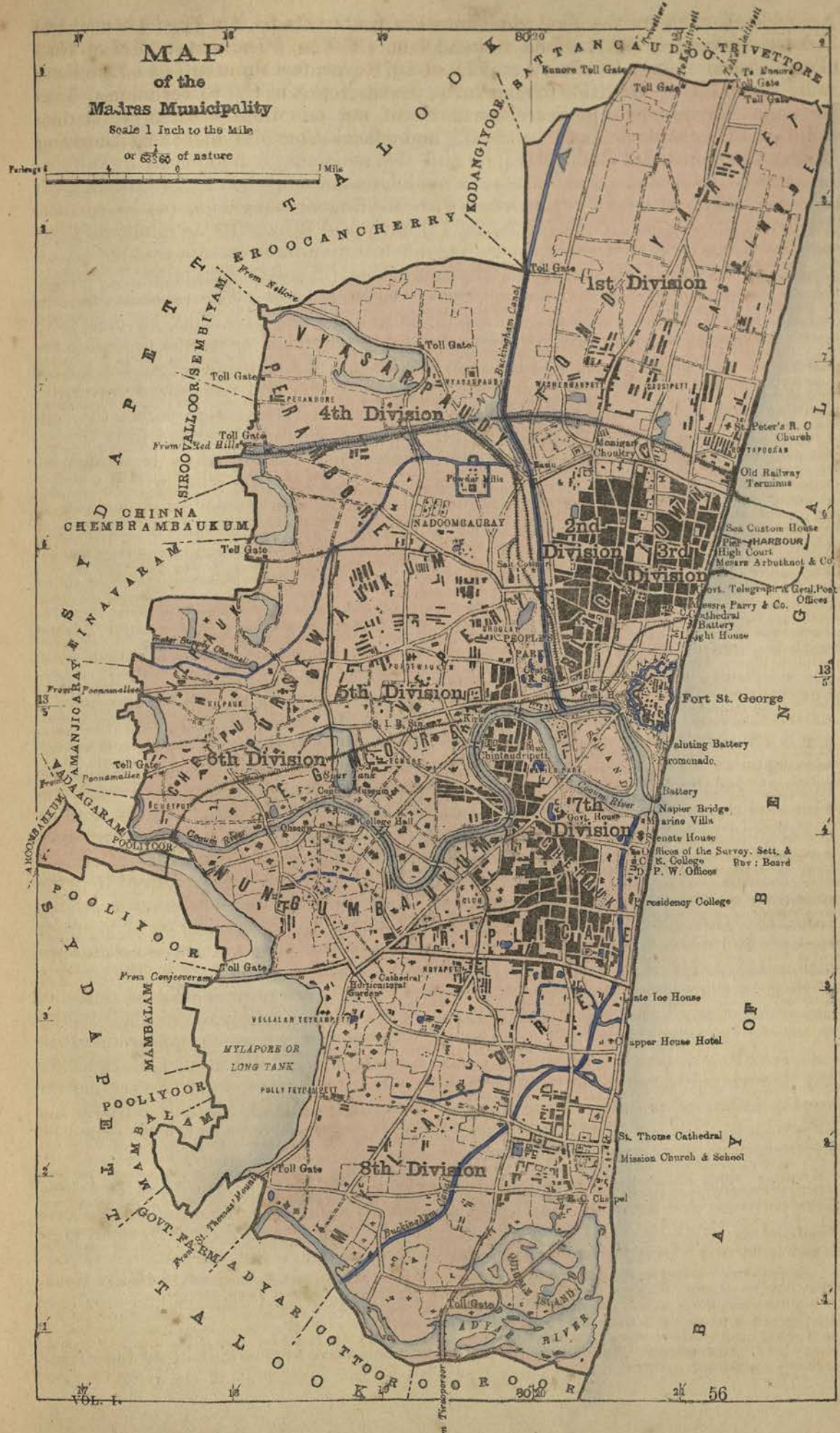


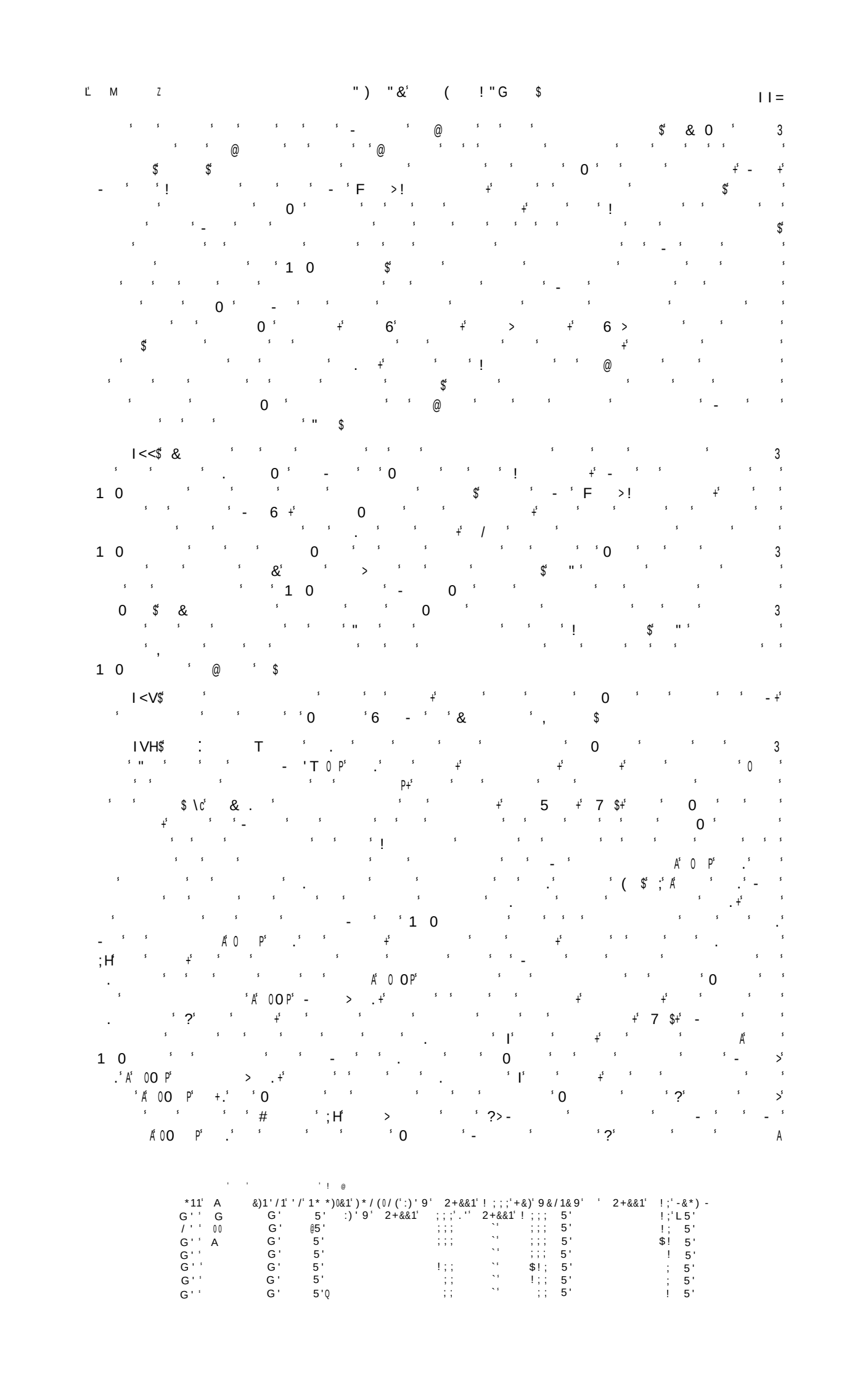


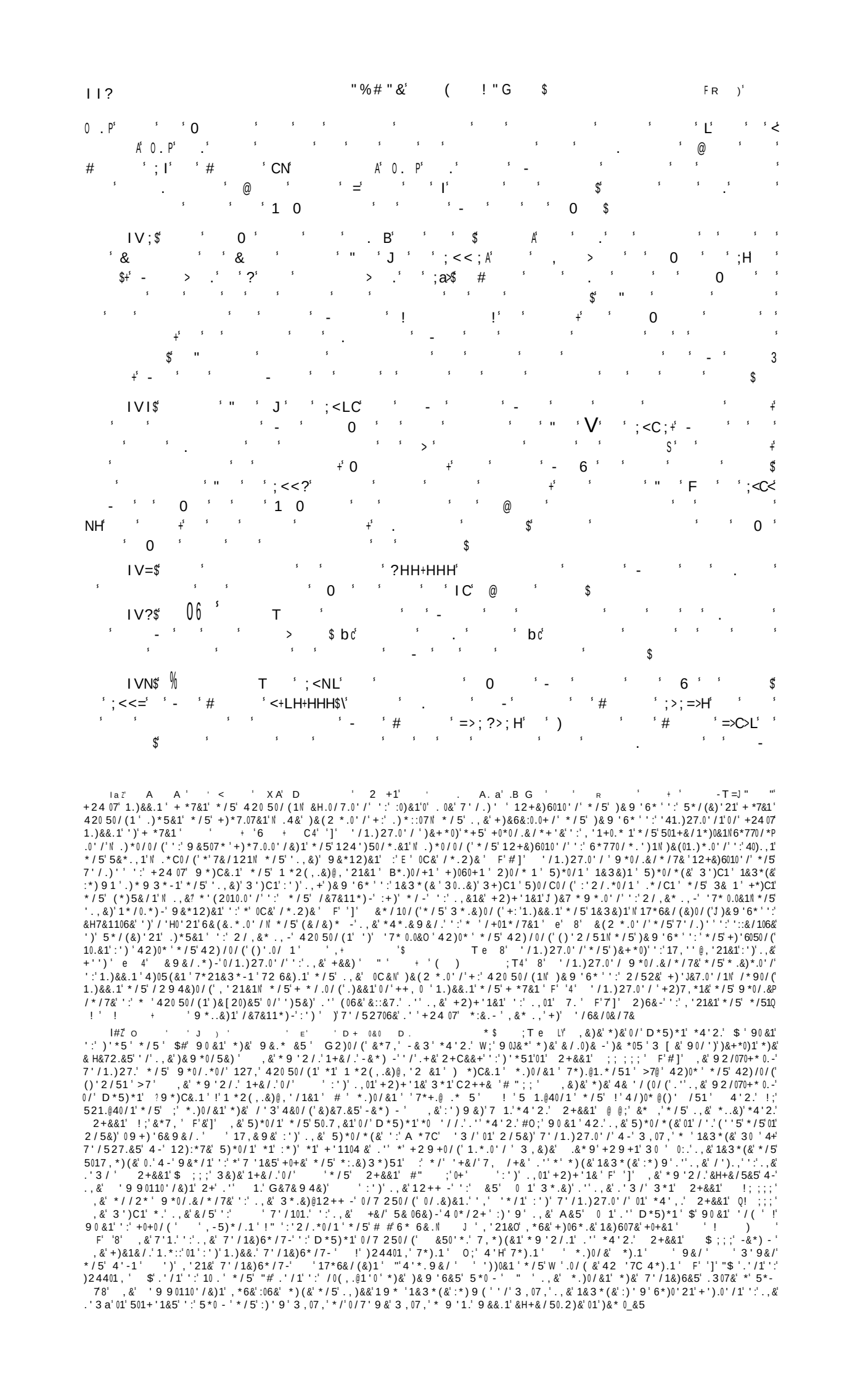


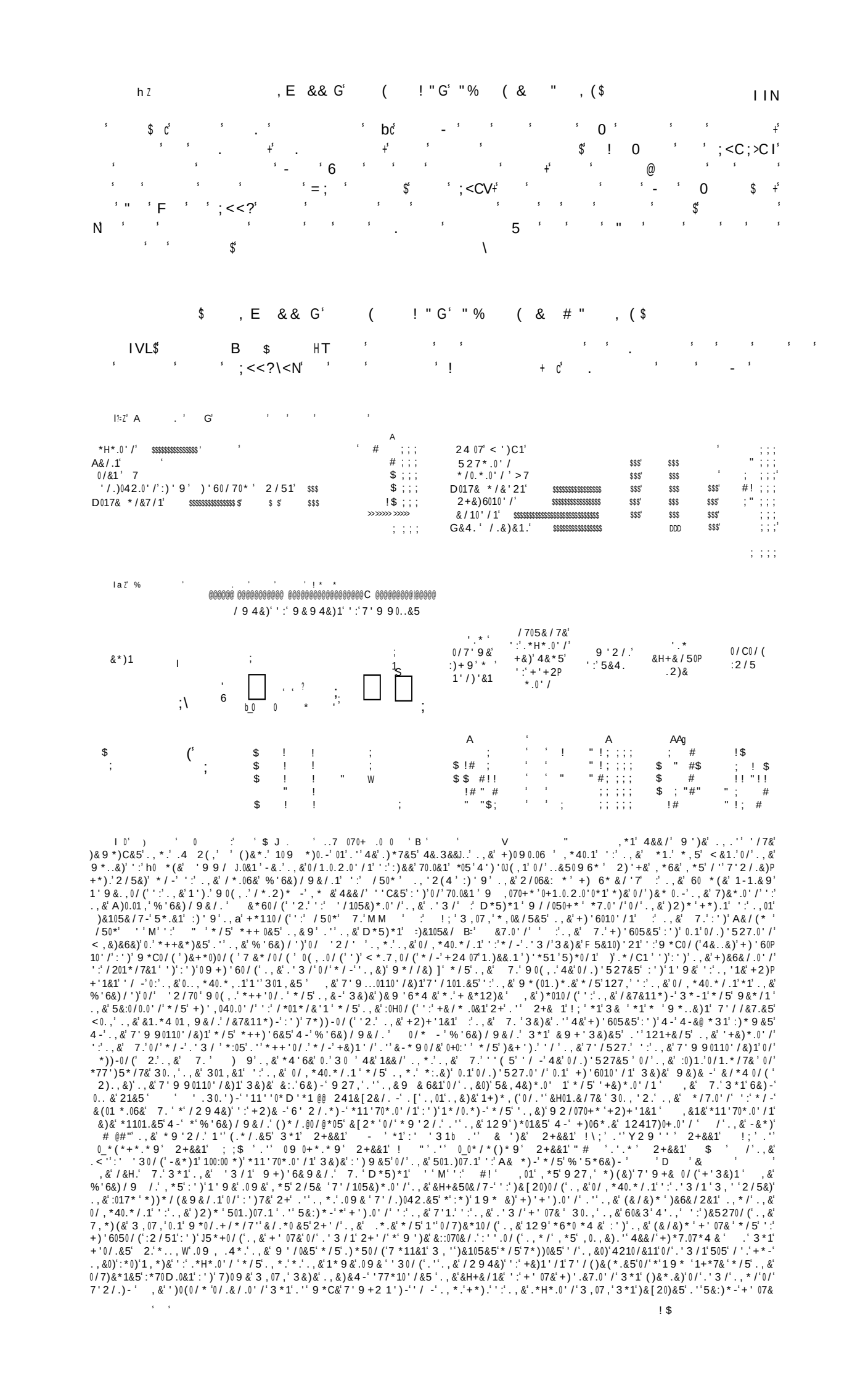


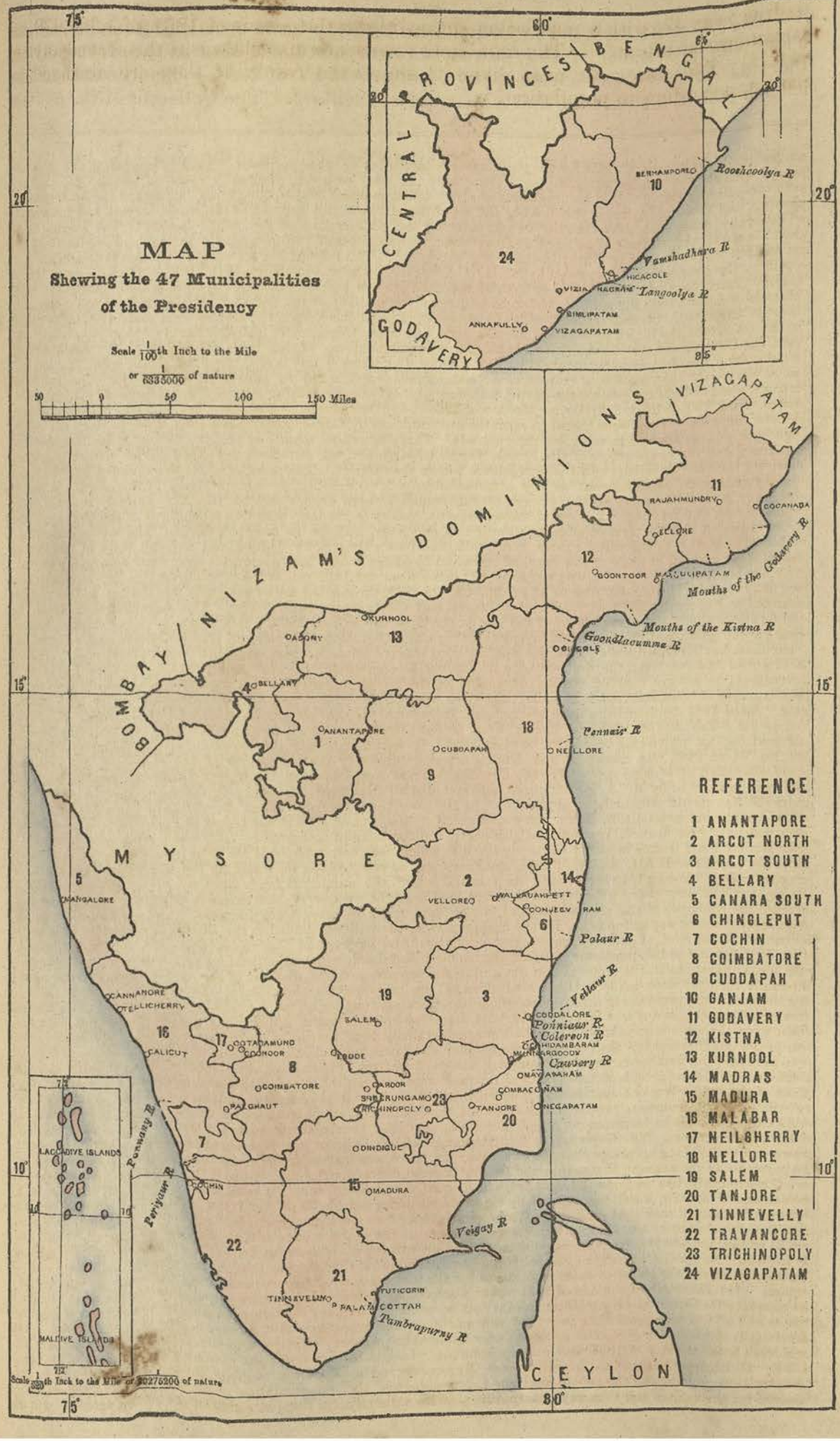


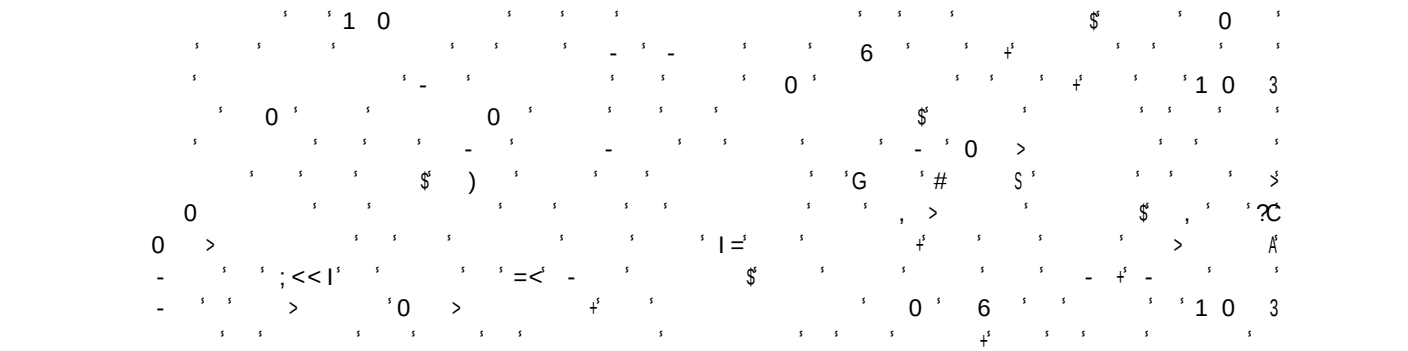

MAP
of the
Madras Municipality
Scale 1 Inch to the Mile
or 1/63360 of nature
Furlongs
Mile
TALOOK
PERAMBOOR
1st Division
2nd Division
3rd Division
4th Division
5th Division
6th Division
7th Division
8th Division
VYASARPAUDY
CHINNA CHEMBRAMBAUKUM
NADOOMBAURAY
PURSEWAUKUM
EGMORE
NUNGUMBAUKUM
TRIPLICANE
MYLAPORE OR LONG TANK
POOLIYOOR
MAMBALAM
ADYAR
GOVT. FARM
Fort St. George
Saluting Battery
Promenade
Napier Bridge
Presidency College
St. Thome Cathedral
Mission Church & School
Old Railway Terminus
Sea Custom House
HARBOUR
High Court
Light House
Fever Hospital
Cathedral
Horticultural Gardens
Toll Gate
Powder Mills
Observatory
College Hall
Club
Gun Tank
Water Supply Channel
Buckingham Canal
Cooum River
Adyar River
Adyar Bar
Bay of Bengal
From Nellore
From Red Hills
From Poonamallee
From Conjeeveram
From St. Thomas' Mount
From Pulicat
KODANGIYOOR
SIROOVALLOOR
EROOCANCHERRY
VADAGARAM
KILPAUK
PERAMBOOR
VELLALAR TEYNAMPET
PULLY TEYNAMPET
56

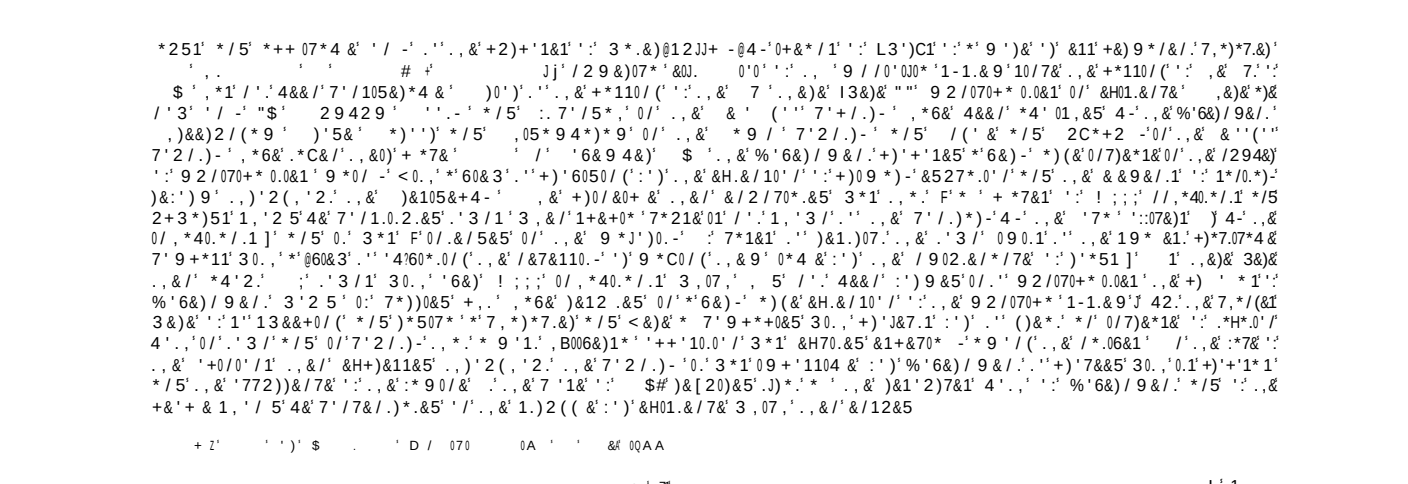


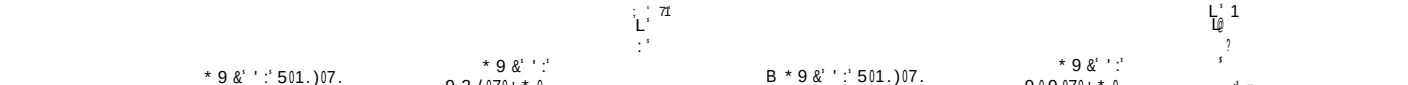


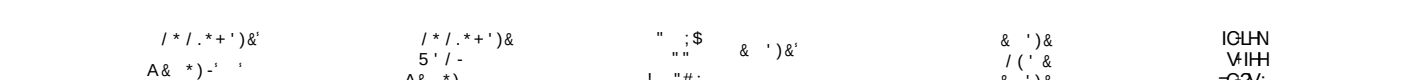


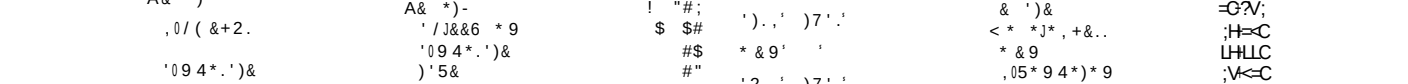

MAP
Shewing the 47 Municipalities
of the Presidency
Scale 1/100th Inch to the Mile
or 1/3336000 of nature
50 0 50 100 150 Miles
CENTRAL PROVINCES
BENGAL
BERHAMPORE
Roosheoolya R
10
24
Vamshadhara R
VIZIANAGRAM
Langoolya R
SIMLIPATAM
ANKAPULLY
VIZAGAPATAM
GODAVERY
BOMBAY
NIZAM'S DOMINIONS
VIZAGAPATAM
11
RAJAHMUNDRY
COCANADA
ELLORE
12
BOONTOOR
MASULIPATAM
Mouths of the Godavery R
KURNOOL
13
CUDDAPAH
BELLARY
Mouths of the Kistna R
Goondlacumma R
GOLCONDA
ANANTAPORE
1
CUDDAPAH
18
Pennair R
NELLORE
9
REFERENCE
1 ANANTAPORE
2 ARCOT NORTH
3 ARCOT SOUTH
4 BELLARY
5 CANARA SOUTH
6 CHINGLEPUT
7 COCHIN
8 COIMBATORE
9 CUDDAPAH
10 GANJAM
11 GODAVERY
12 KISTNA
13 KURNOOL
14 MADRAS
15 MADURA
16 MALABAR
17 NEILGHERRY
18 NELLORE
19 SALEM
20 TANJORE
21 TINNEVELLY
22 TRAVANCORE
23 TRICHINOPOLY
24 VIZAGAPATAM
MYSORE
5
MANGALORE
2
VELLOREO
WALLAJAHPETT
CONJEEVERAM
14
6
Palaur R
CANNANORE
TELLICHERRY
19
3
Vellaur R
SALEM
CUDDALORE
Ponniaur R
Coleroon R
CHIDAMBARAM
MUNDRAGOODY
Cauvery R
16
17
CALICUT
COTACAMUND
COIMBATOOR
ERODE
8
ONAYAPAHAM
COIMBATORE
KAROOR
SERERUNGAMO
TRICHINOPOLY
23
COMBACONAM
PALGHAUT
TANJORE
NEGAPATAM
20
7
DINDIGUL
LACCADIVE ISLANDS
Ponnany R
Periyaur R
COCHIN
15
MADURA
10°
Veigay R
22
21
TUTICORIN
TINNEVELLY
PALAMCOTTAH
Tambrapurny R
MALDIVE ISLANDS
CEYLON
75°
80°

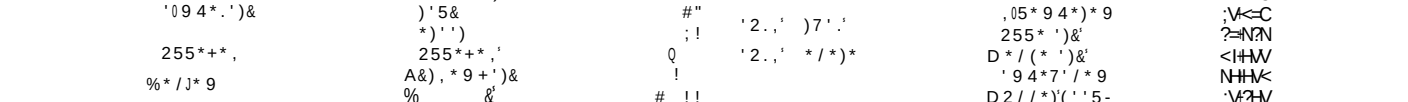


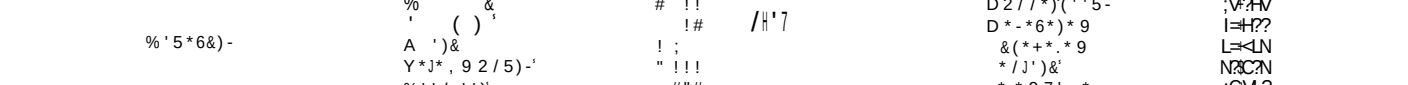


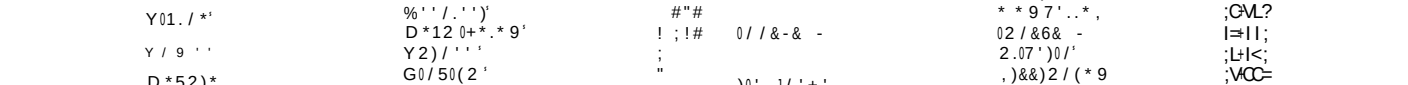


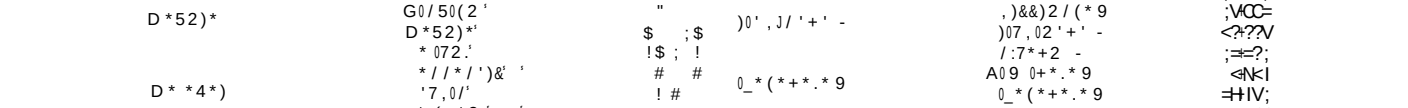


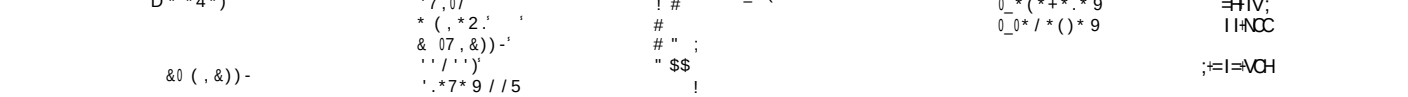


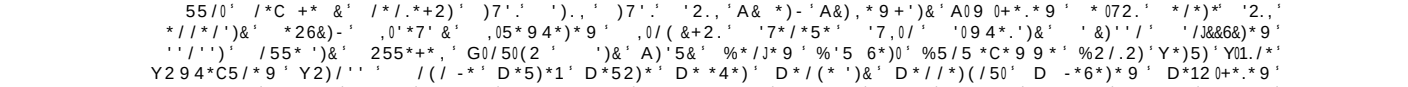


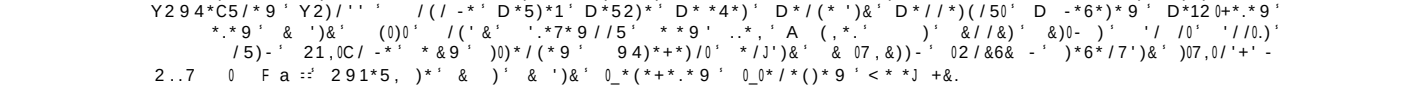


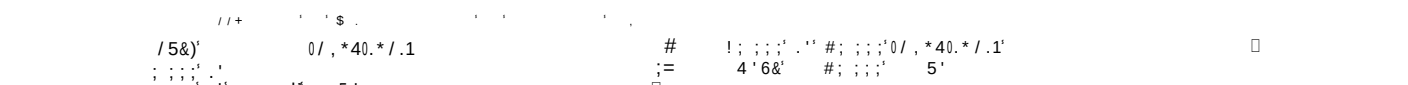


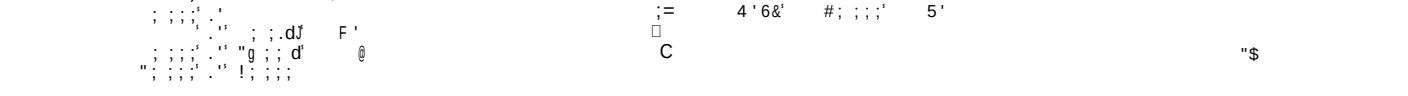


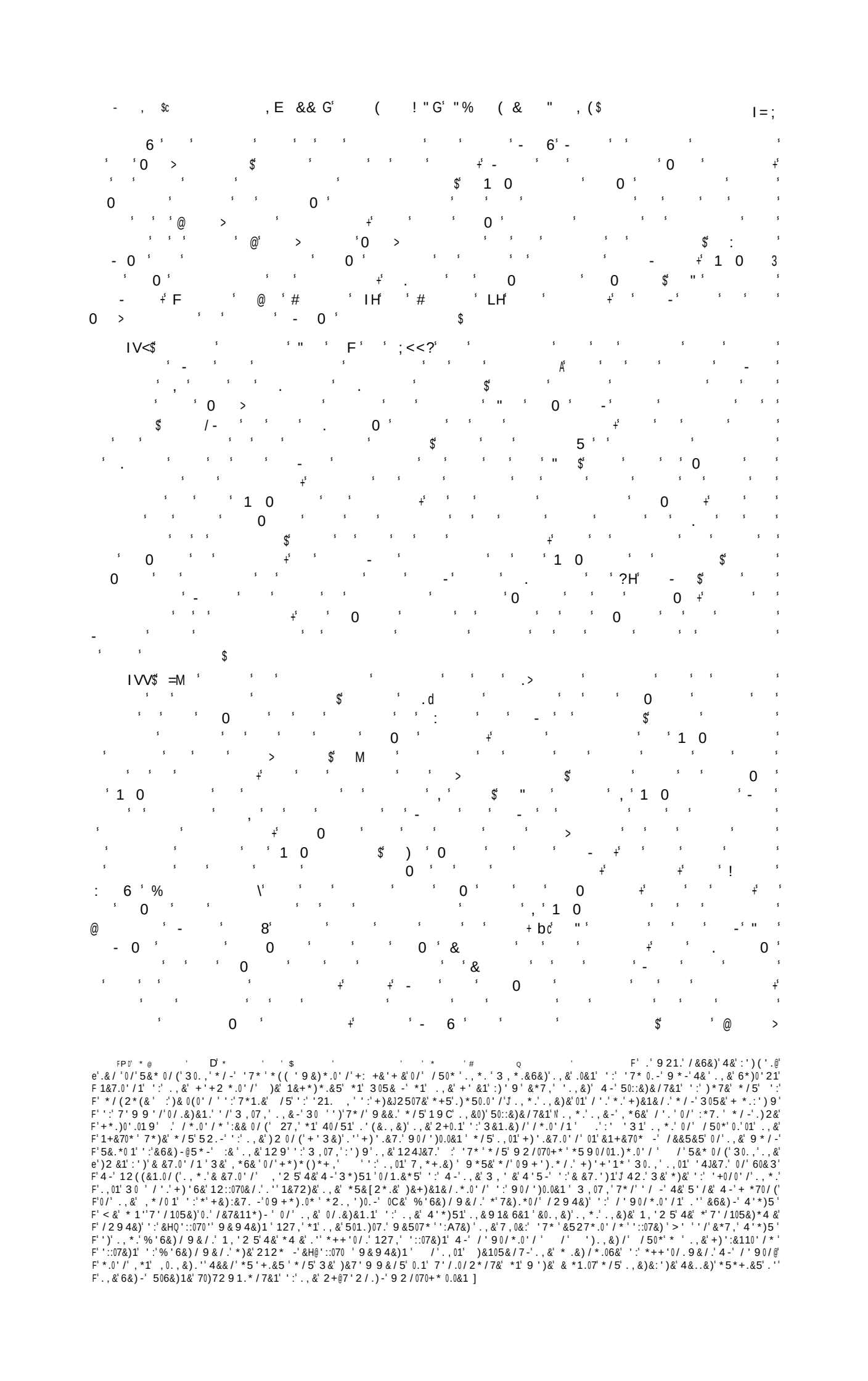


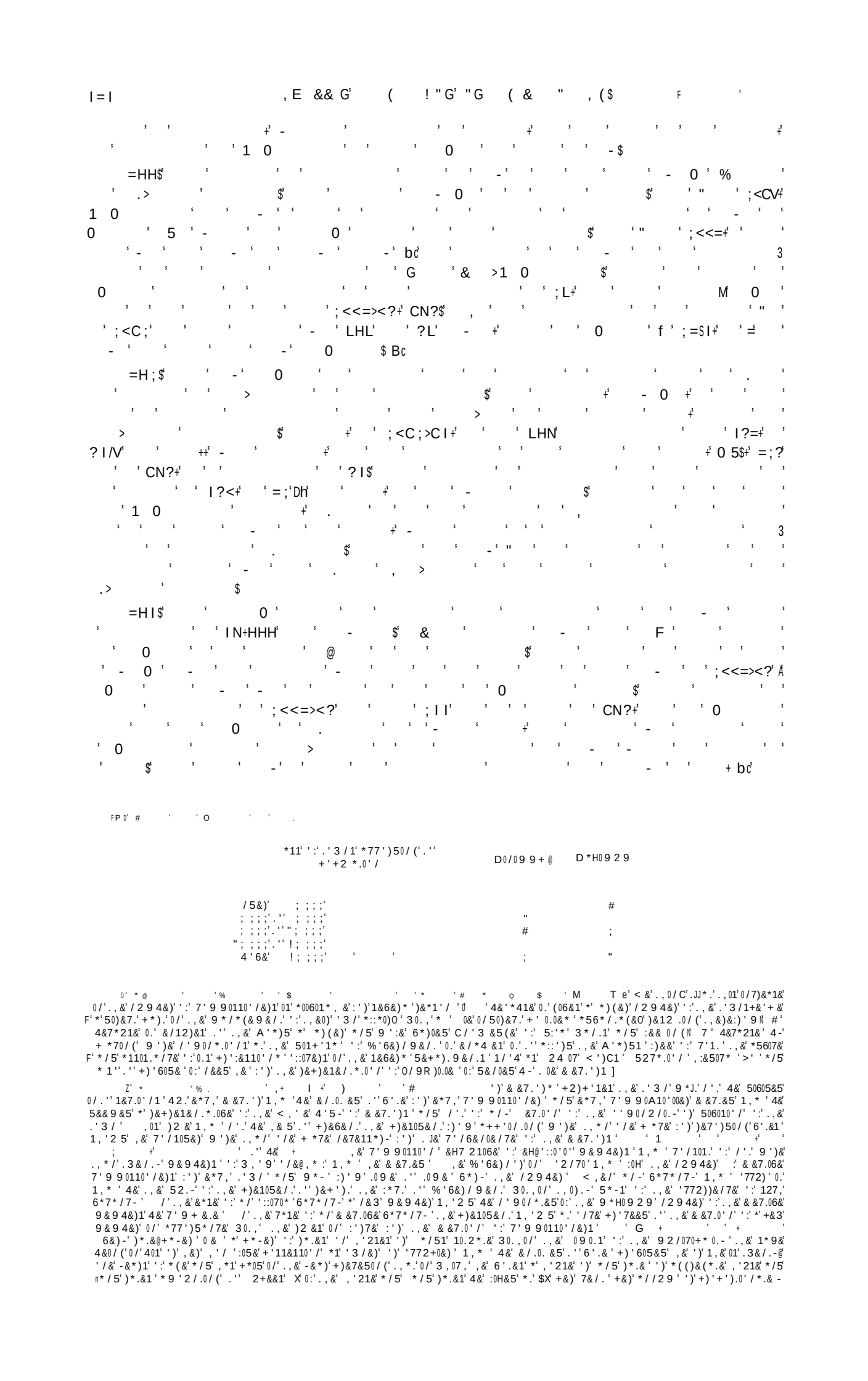


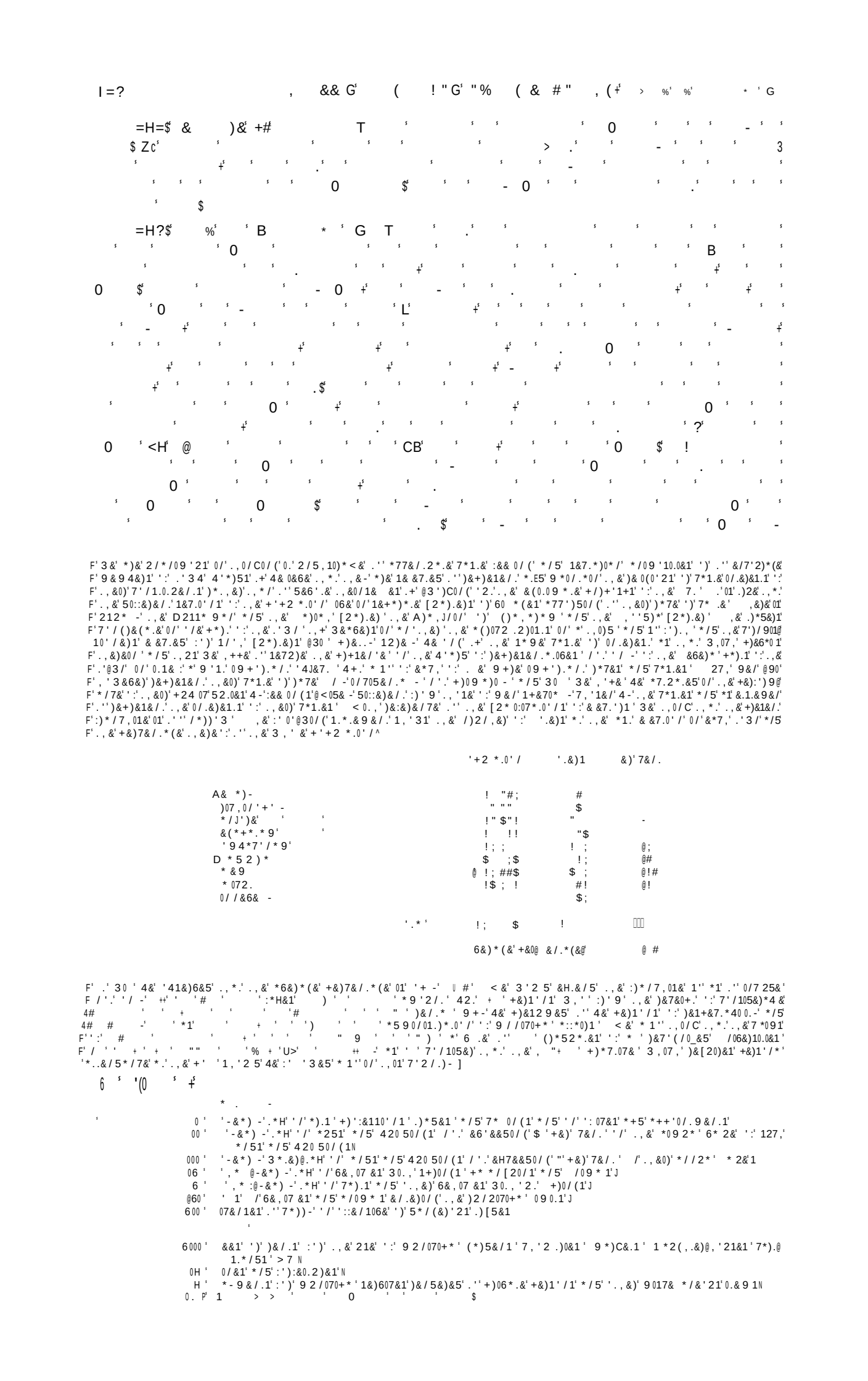


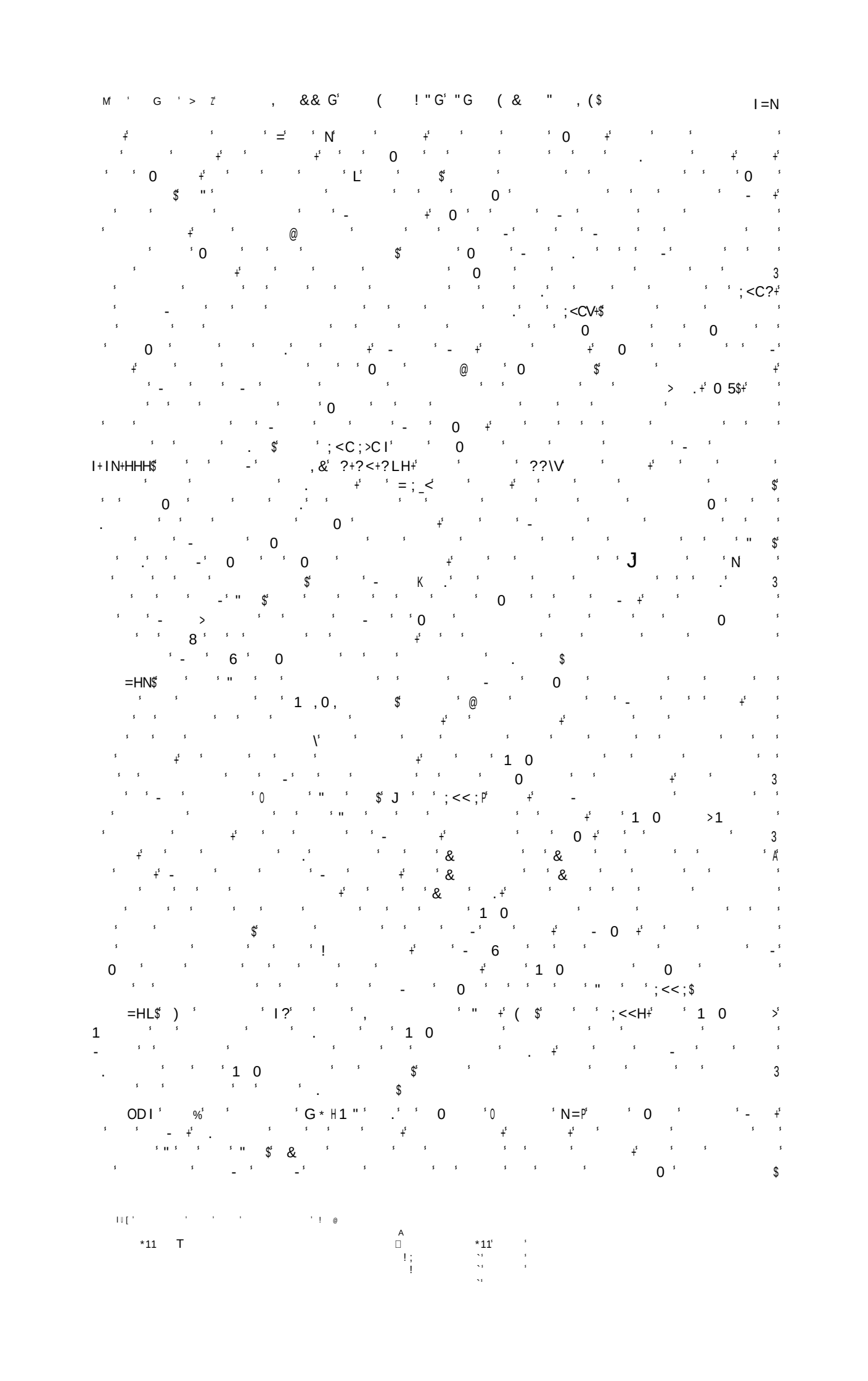










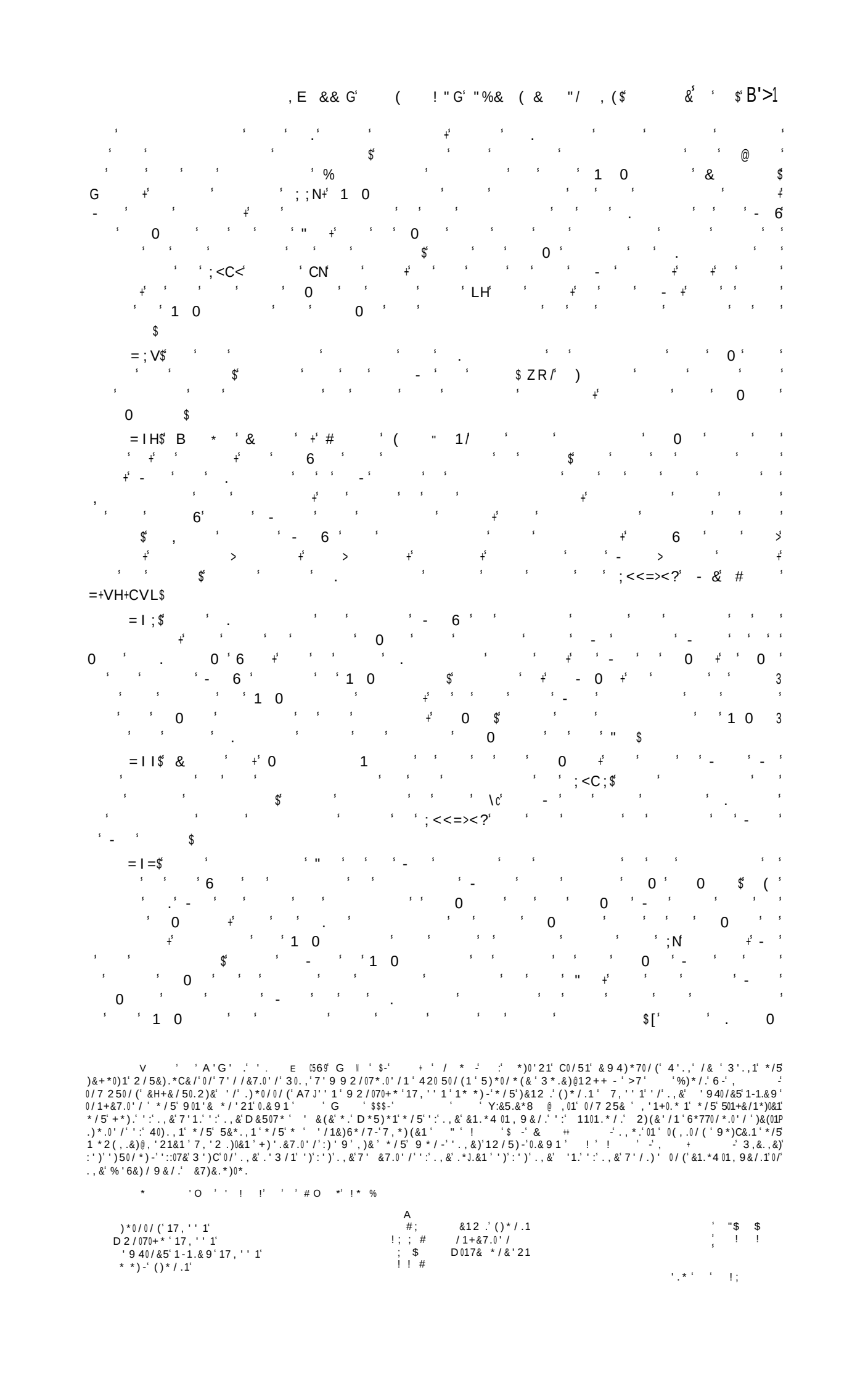


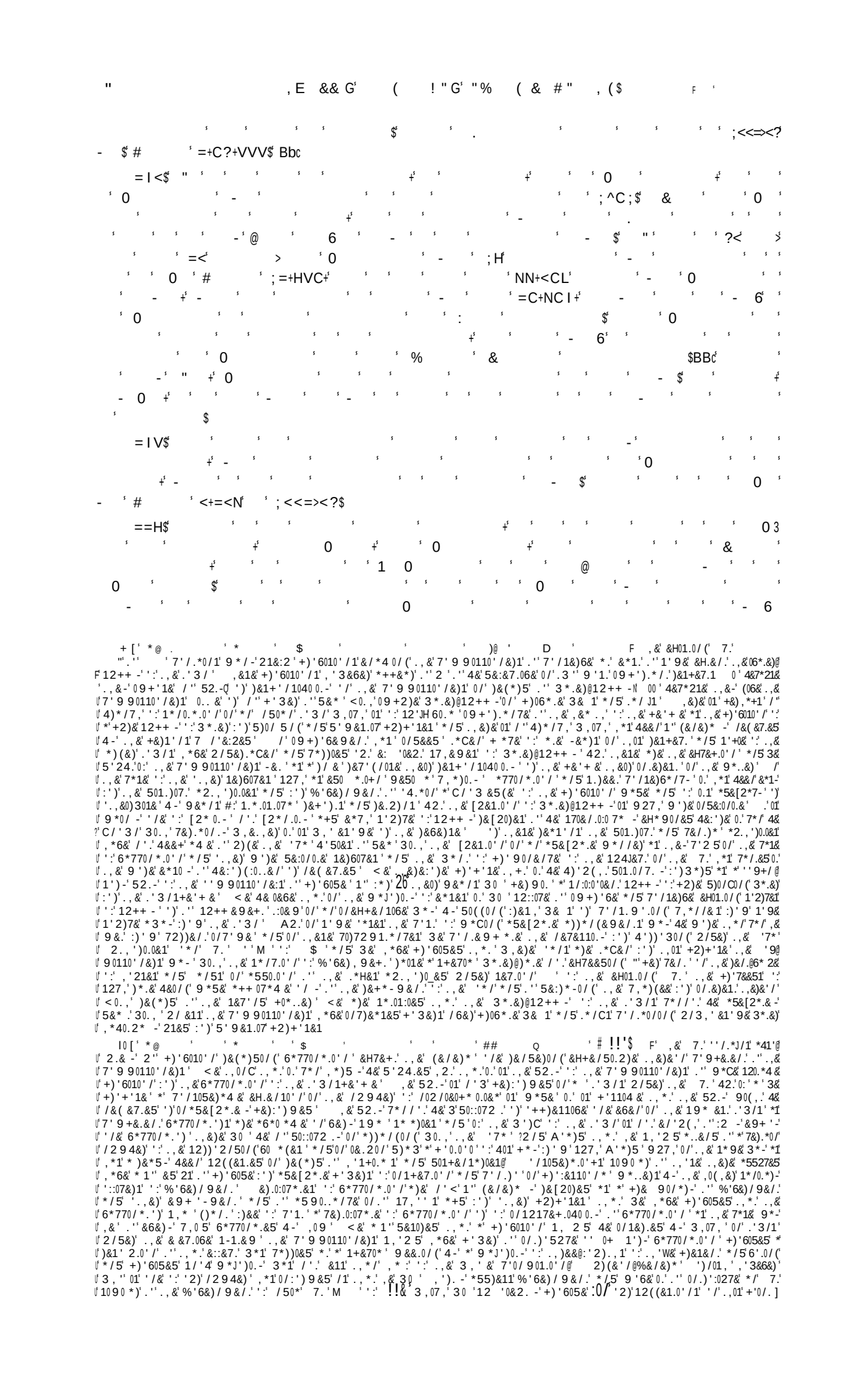
317. TOTAL MUNICIPAL INCOME.—The statement below [12] shows the total municipal income for each year under the various heads exclusive of balances and imperial license-tax since the passing of Act III of 1871. It will be observed that in 1871-72 the income was Rupees 9,44,000, and that, with the exception of the year 1874-75, when the profession-tax was temporarily abolished, and the years 1876-77 and 1877-78 when the famine prevailed, there has been a general and well-sustained tendency to increase until in the past year, 1883-84, the highest figure yet recorded was reached, viz., Rupees 14,06,230, of which Rupees 9,98,716 was from taxation properly so called and the remainder was income from other sources. The incidence of the taxation per head of the municipal population was 12 annas and 1 pie including tolls and 8 annas and 9 pies excluding them; that of the income from other sources having been 5 annas. If, however, the proceeds of the license-tax be taken into calculation, the incidence of taxation would be Rupees 0-13-3 and that of the total income Rupees 1-3-6.

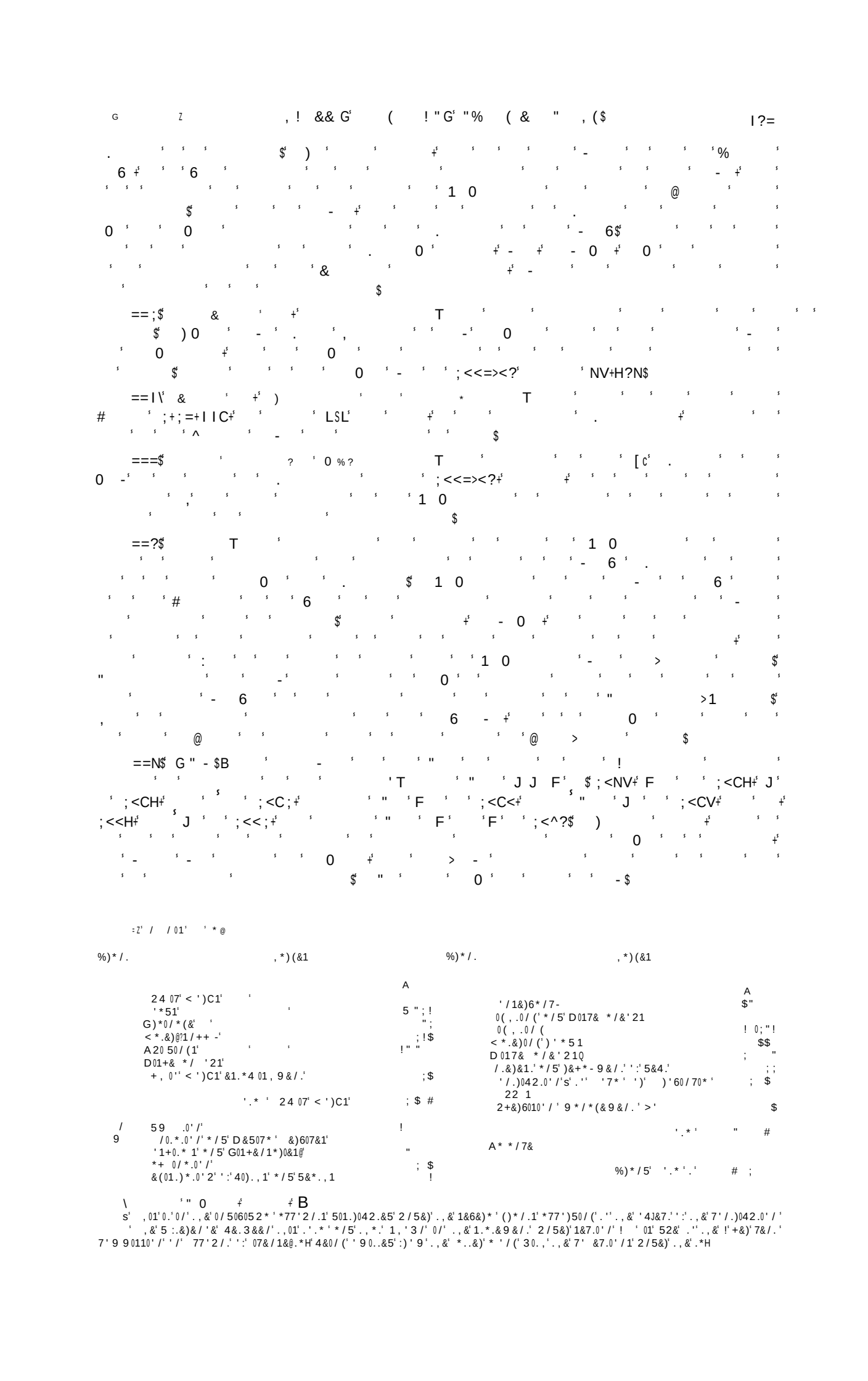
318. APPLICATION OF FUNDS.—The funds raised under the Act must, subject to such rules and restrictions as the Governor in Council may from time to time prescribe, be applied within the towns in which they are raised to the following purposes :—"(*a*) The construction, repair, and maintenance of streets, bridges and other means of communication; (*b*) the construction and repair of hospitals, dispensaries, lunatic asylums, choultries, markets, poor-houses, tanks and wells, the payment of all charges connected with drains, sewers, water-works, the objects for which such buildings have been constructed, the training and employment of medical practitioners and vaccinators, the sanitary inspection of towns and villages, the application of the Indian Contagious Diseases Act, the registration of births and deaths, the lighting of the streets, the cleansing of the streets and tanks and wells and other works of a similar nature; (*c*) the diffusion of education and, with this view, the construction and repair of school-houses, the establishment and maintenance of schools, either wholly or by means of grants-in-aid, the inspection of schools, and the training of teachers; (*d*) other measures of public utility calculated to promote the safety, health, comfort, or convenience of the people; (*e*) the payment of salaries, leave allowances, pensions, gratuities and compassionate allowances to servants employed by the municipal council; and (*f*) the payment of all expenses specially provided for by this Act but not included under the preceding clauses of this section. The water-tax, however, cannot be expended on any object other than that for which it is levied. It is also competent to the councillors (section 114), with the sanction or upon the direction of Government, to contribute towards the expenses incurred in any other municipality under the Act, or in any local fund circle, where such expenditure is incurred for any of the purposes above mentioned and is calculated to benefit the inhabitants of the contributing town, but, if the initiative in regard to such contribution is taken by Government, the councillors must be given an opportunity of offering their opinions on it. Government may further appoint officers to inspect or superintend the operations of

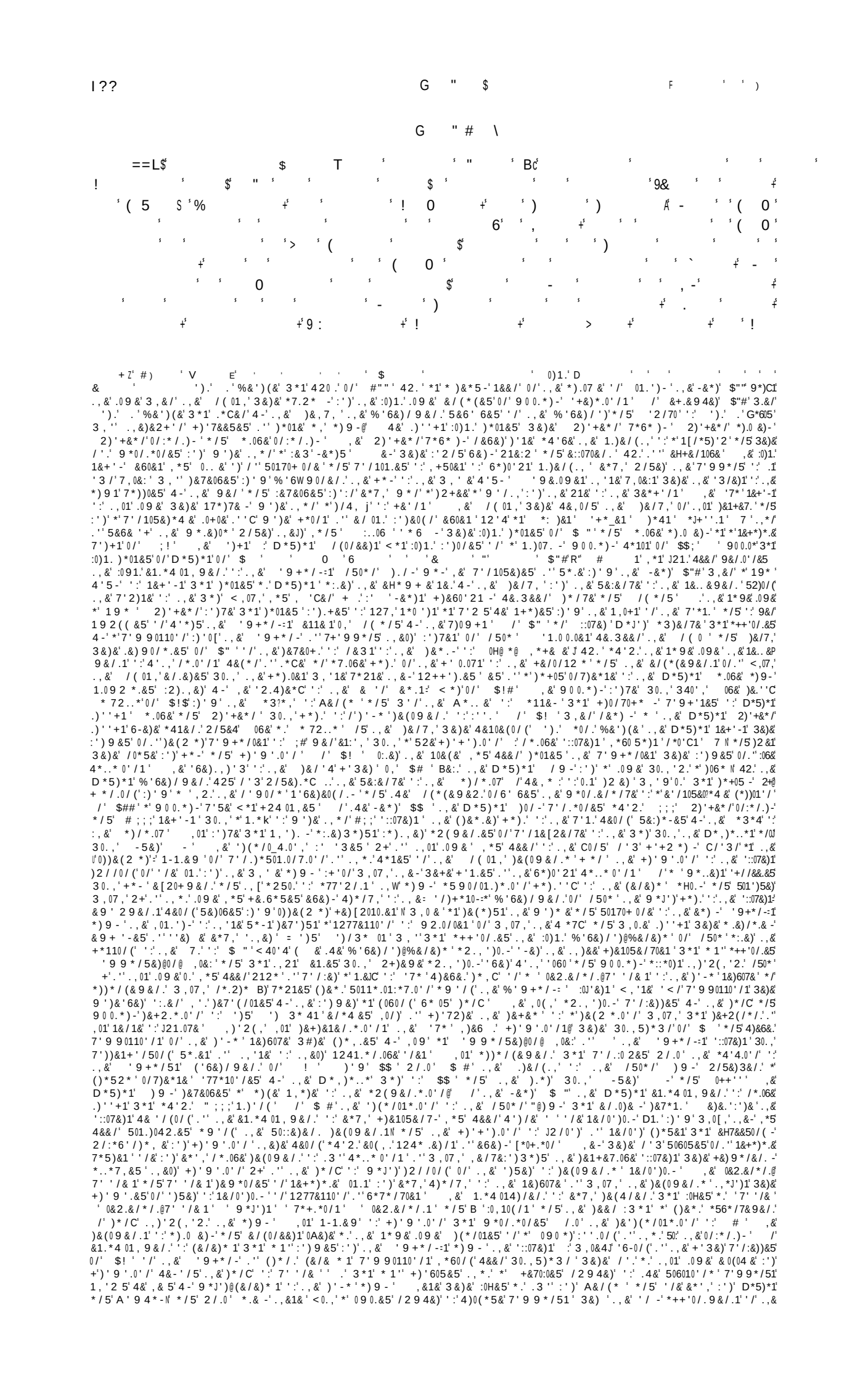
[12] TOTAL RECEIPTS FOR ELEVEN YEARS.

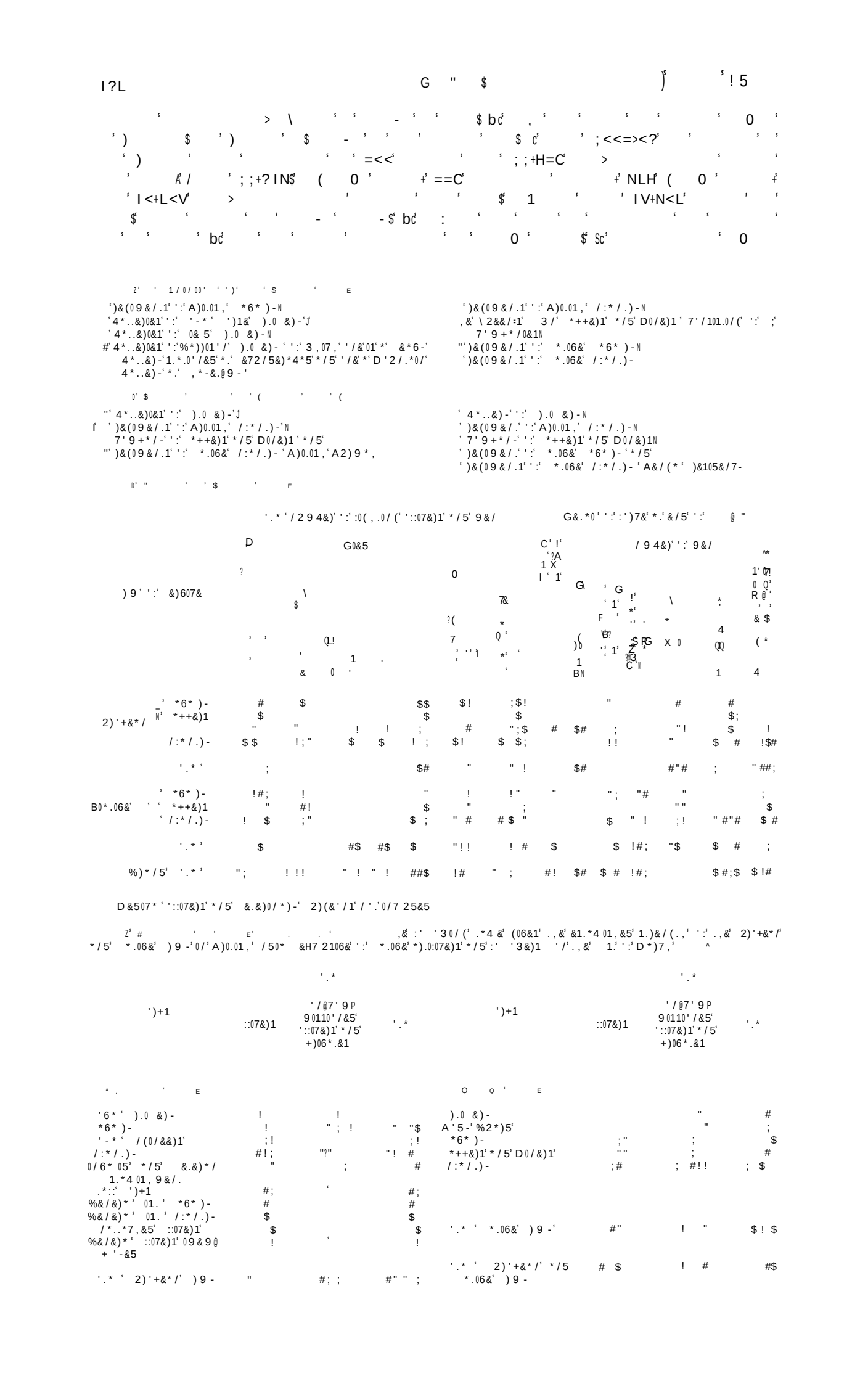
Receipts.	1871-72.	1872-73.	1873-74.	1874-75.	1875-76.	1876-77.	1877-78.	1878-79.	1879-80.	1880-81.	1881-82.	1882-83.	1883-84.	Total.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Tax on houses and land	2,24,994	2,60,514	2,45,146	2,88,939	3,08,325	3,02,224	3,24,560	3,57,287	4,01,109	4,05,764	4,30,983	4,17,749	4,48,460	44,16,054
Profession tax	1,54,610	1,81,435	1,53,158	35,495	41,157	43,020	65,482	87,071	1,08,409	1,31,144	1,40,721	1,36,230	1,40,582	14,18,514
Tax on vehicles	72,338	82,838	85,520	88,058	44,124	46,948	94,448	98,215	1,01,150	98,962	1,03,873	1,07,337	1,15,228	12,37,980
Tax on animals					49,650	49,291								
Tolls and ferries	3,01,503	3,27,152	3,42,970	3,18,977	3,39,710	2,79,389	2,53,666	2,34,117	2,52,148	2,60,160	2,82,046	2,89,873	2,75,369	37,57,080
License fees	14,453	15,511	14,561	17,883	21,091	18,273	17,791	18,518	15,933	17,808	19,858	18,223	19,077	2,28,980
Total income from taxation	7,67,898	8,67,450	8,41,355	7,49,352	8,04,057	7,39,145	7,55,947	7,95,208	8,78,749	9,13,838	9,77,481	9,69,412	9,98,716	1,10,58,608
Rent of markets, &c.	...	...	...	...	59,311	64,270	64,035	69,117	75,179	80,483	87,611	91,600	97,395	6,89,001
Fines	10,927	12,229	10,839	10,857	17,742	23,045	25,803	30,181	28,753	24,793	24,136	22,299	22,922	2,64,526
Miscellaneous														
Fees for private scavenging, &c.	1,30,611	1,61,637	1,88,317	2,06,383	1,59,027	1,32,920	1,14,723	1,13,554	1,30,333	1,24,978	1,35,774	1,24,182	1,31,320	19,92,574
					5,406	11,459	11,837	12,641	14,444	14,828	22,537	22,984	22,679	
Contribution from Provincial and Local Funds	34,188	71,620	79,931	97,791	90,831	75,842	92,223	91,216	1,01,347	92,148	1,22,690	1,43,631	1,33,198	12,26,656
Total income	9,43,624	11,12,936	11,20,442	10,64,383	11,36,374	10,46,681	10,64,568	11,11,917	12,28,805	12,51,068	13,70,229	13,74,108	14,06,230	1,52,31,365
Opening balance	1,64,582	2,22,115	2,32,580	1,74,655	1,48,617	1,26,404	82,671	88,558	98,759	1,42,962	1,60,382	1,83,822	2,18,072	20,44,179
Grand Total	11,08,206	13,35,051	13,53,022	12,39,038	12,84,991	11,73,085	11,47,239	12,00,475	13,27,564	13,94,030	15,30,611	15,57,930	16,24,302	1,72,75,544

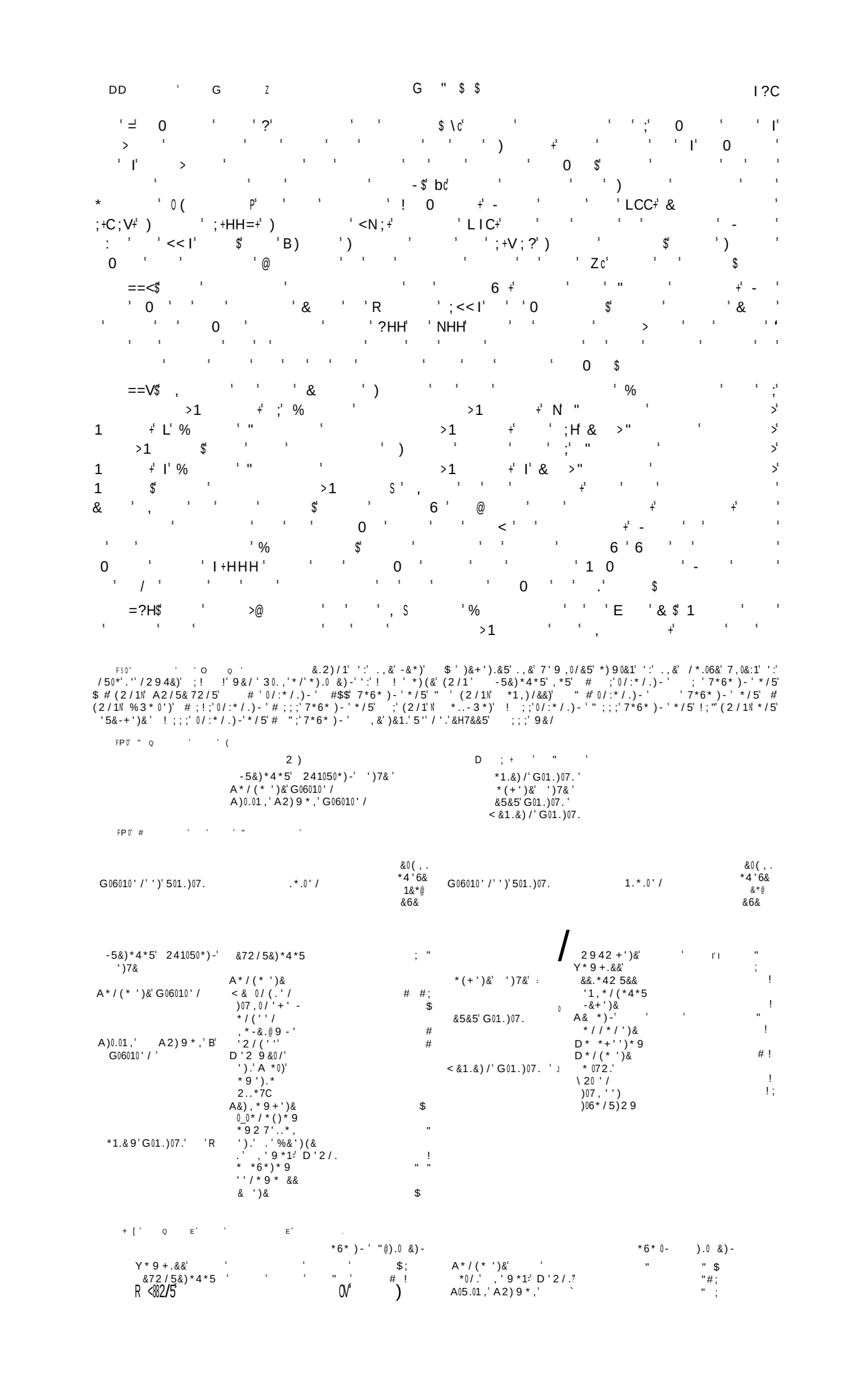


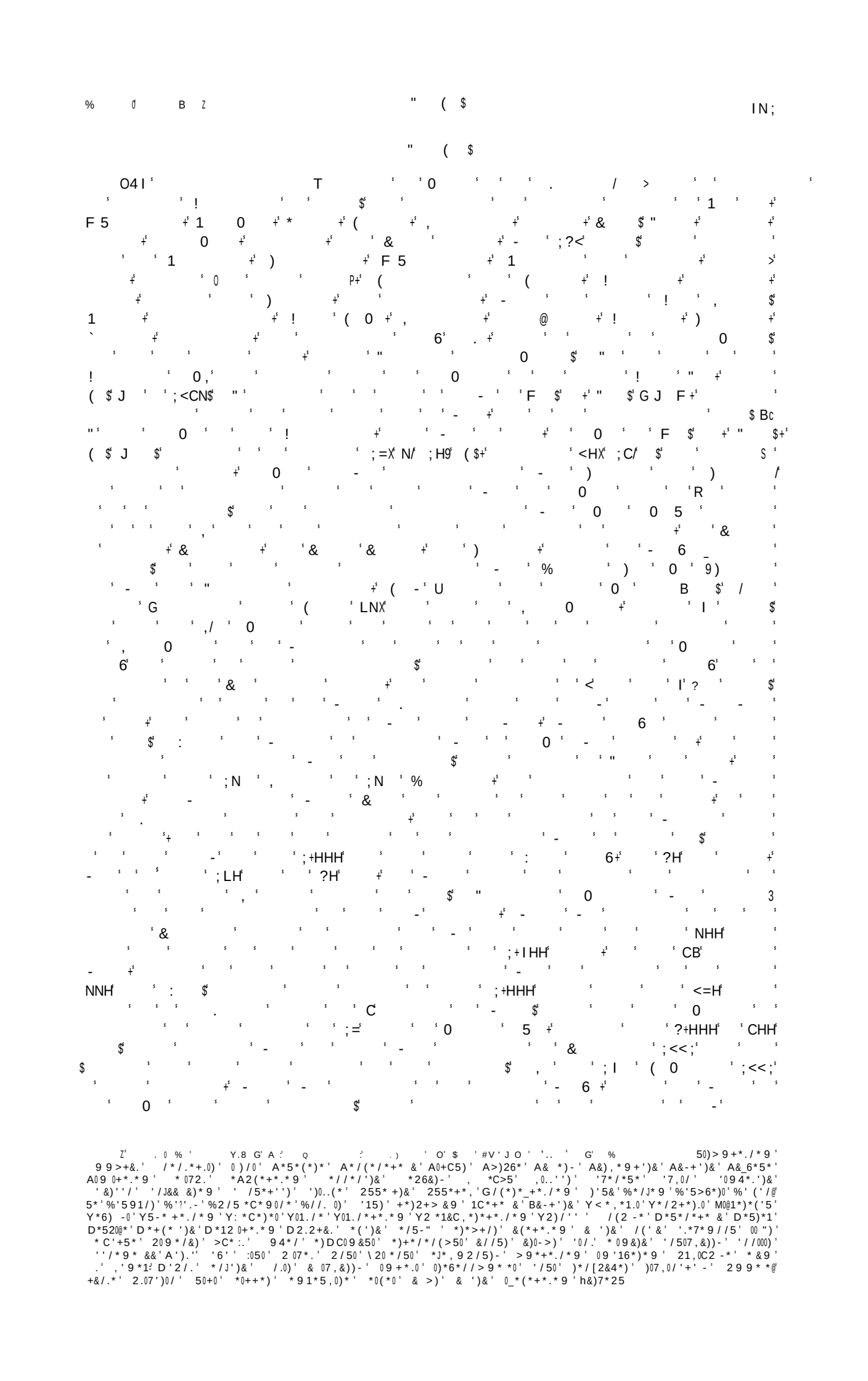




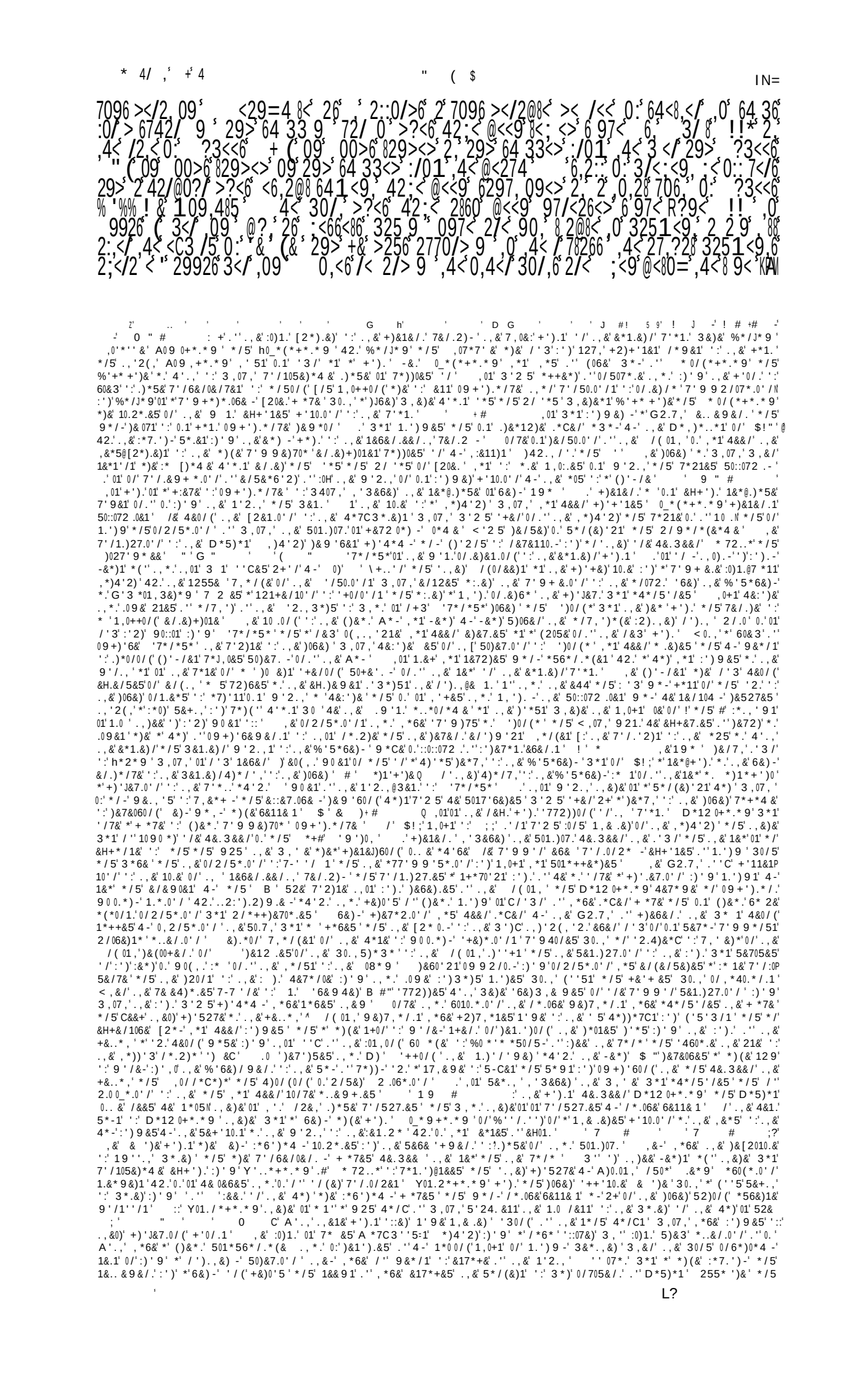


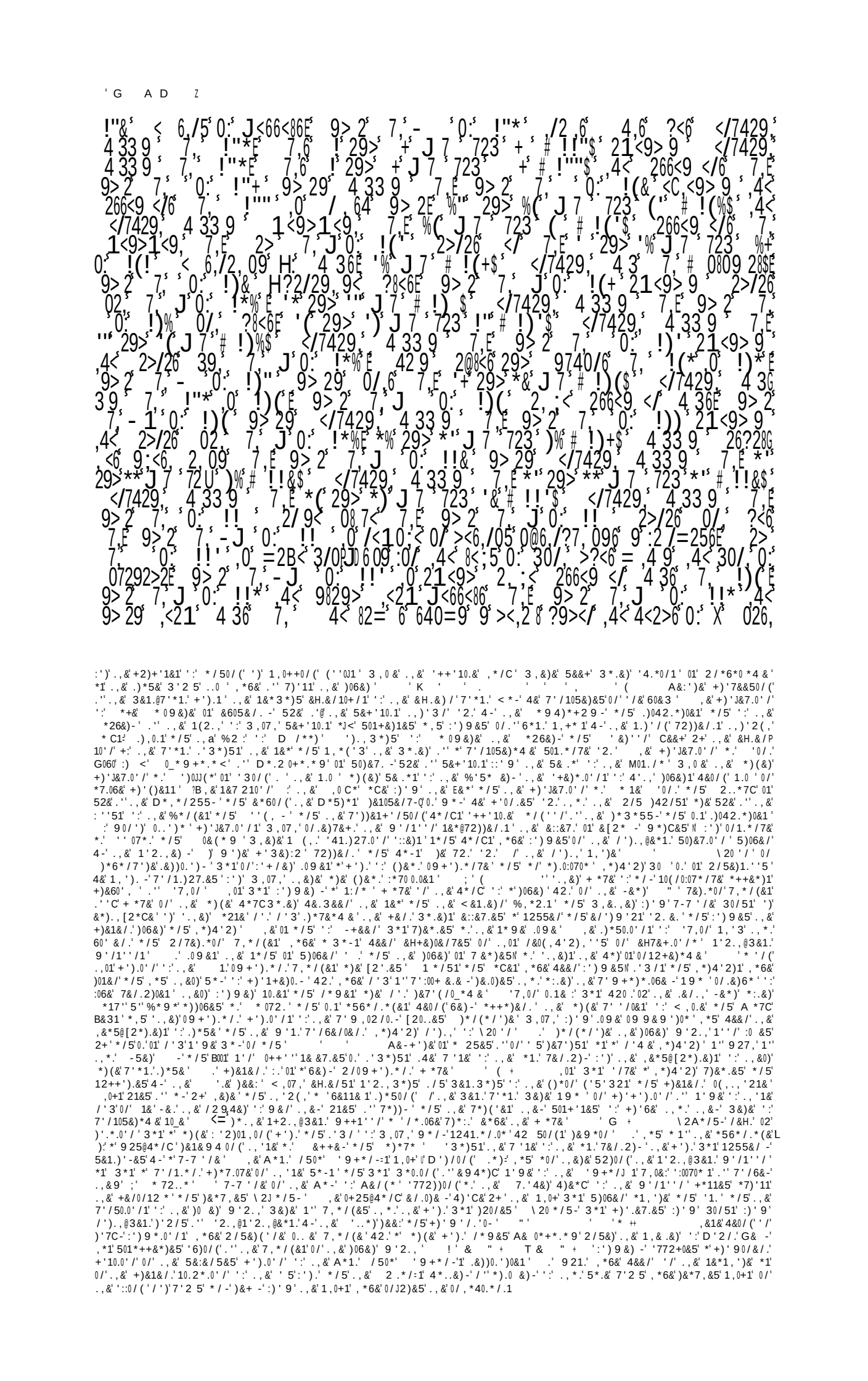


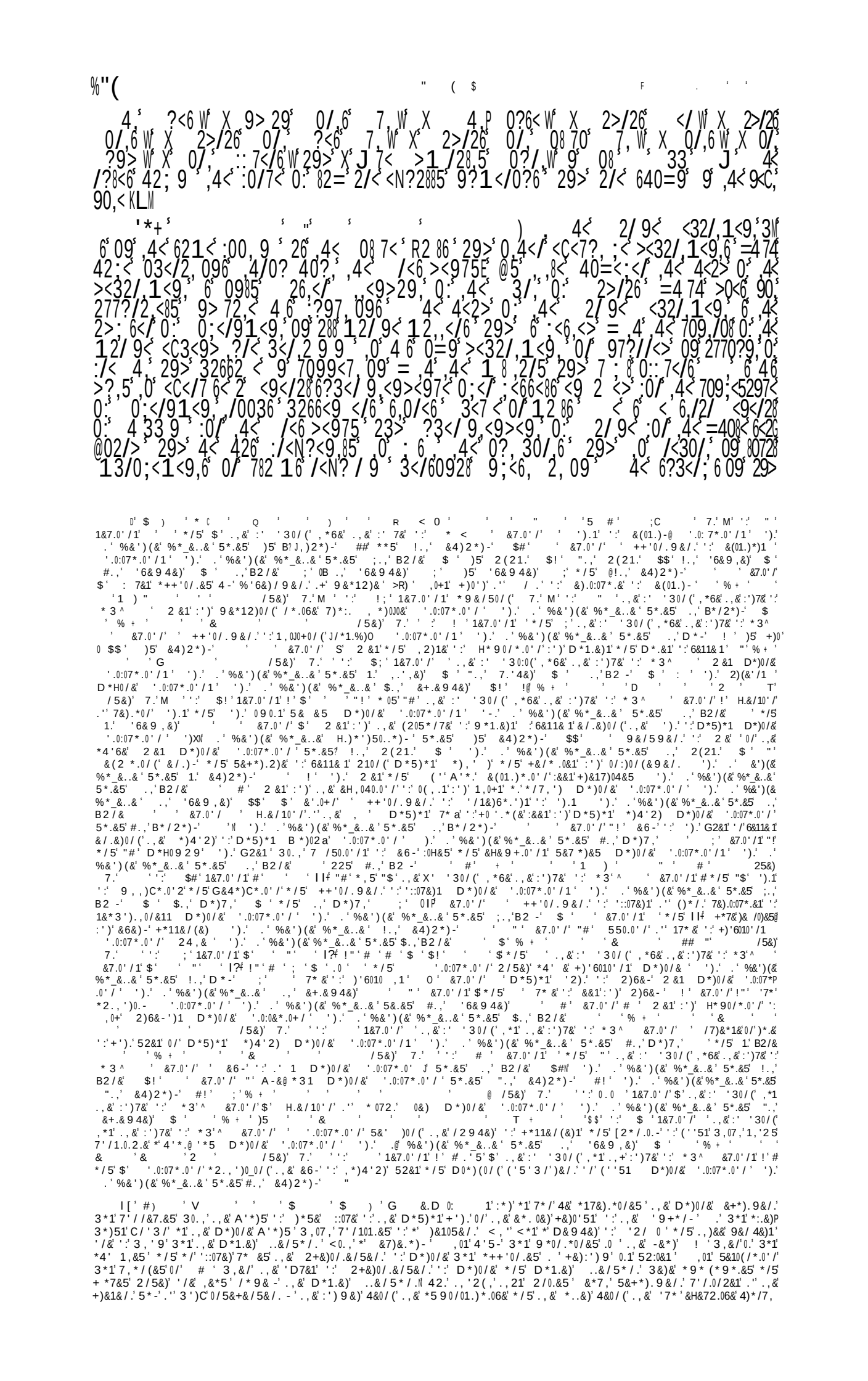


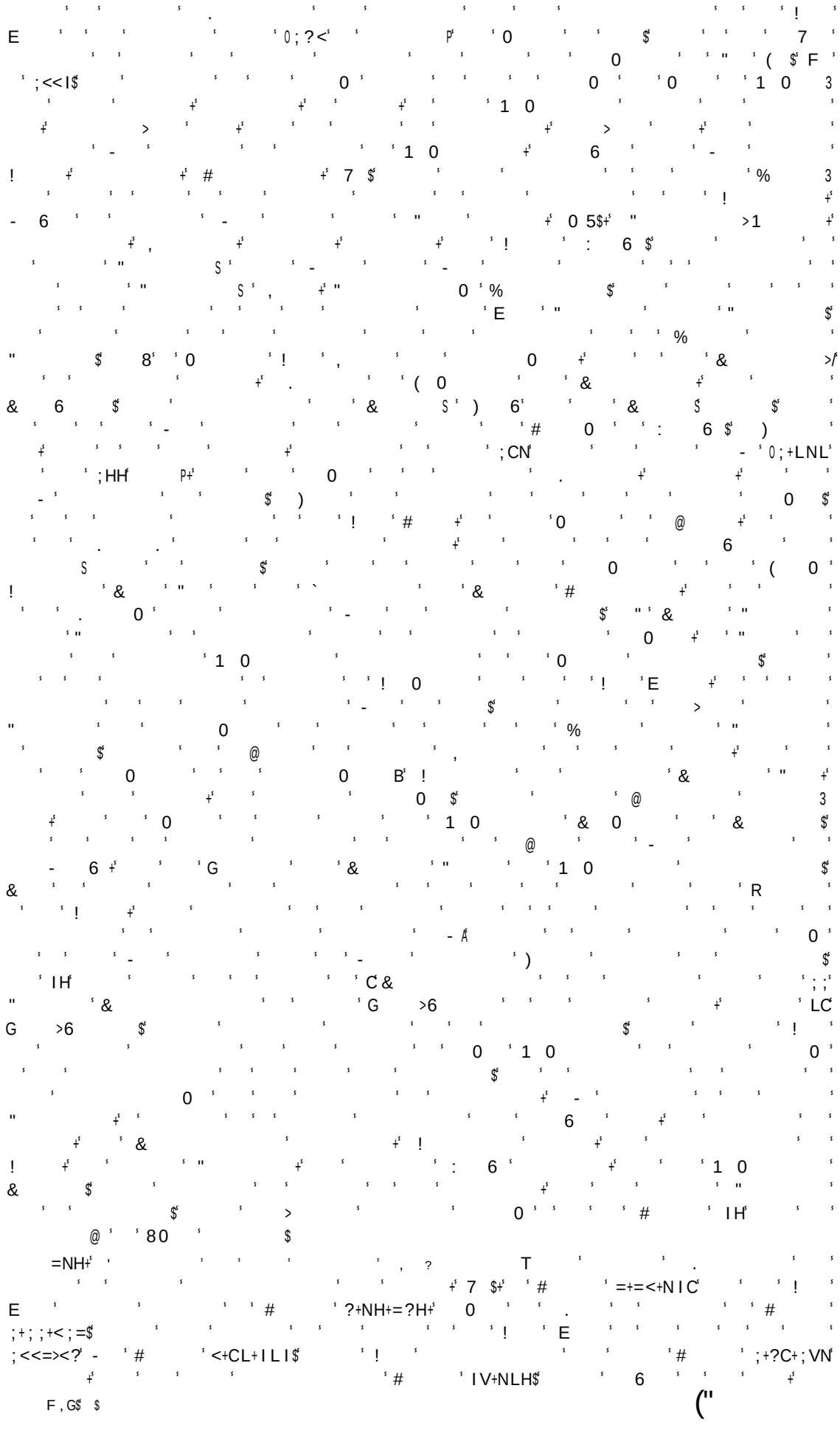


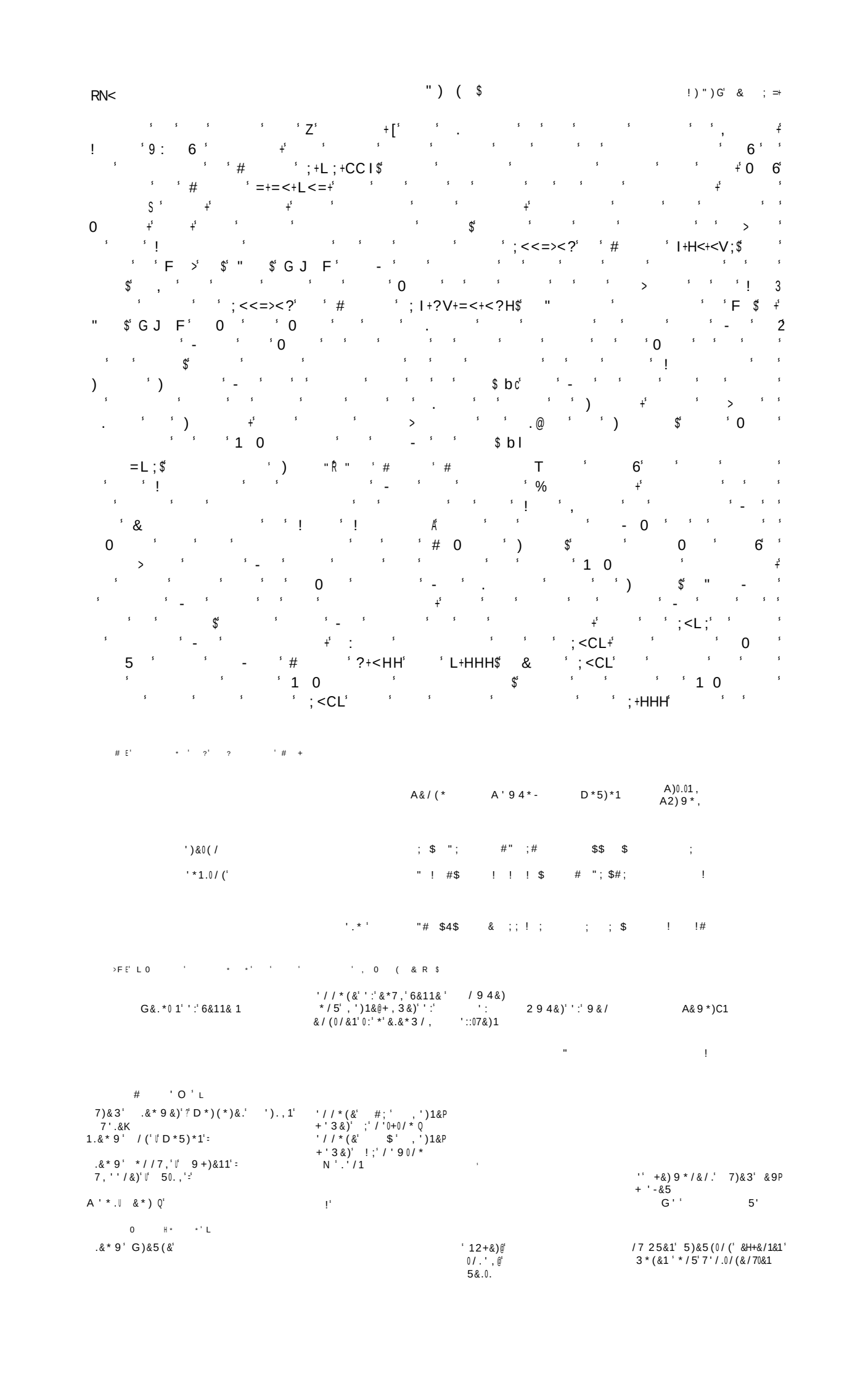
MAP
Shewing Ports and
Light-Houses
Scale 1/100th Inch to the Mile
or 1/3336000 of nature
50 0 50 100 150 Miles
REFERENCE
COCHIN.L Light-House
Quilandy Ports
CENTRAL PROVINCES
BENGAL
COOMSOOR
BERHAMPORE
Ganjam
Roosicoolya R.
GOPALPORE L.
Sonapore
Barwah
Poondy
Vamshadhara R.
CALINGAPATAM L.
Langoolya R.
SANTAPILLY
Conada
Bimlipatam
Vizagapatam
Poodimadaka
Pentacottah
GOLCONDAH
PALKONDAH
PARLAKIMEDY
NIZAM'S DOMINIONS
BOMBAY
MYSORE
TRAVANCORE
COCHIN
MALDIVE ISLANDS
LACCADIVE ISLANDS
Mouths of the Godavery R.
Mouths of the Kistna
Masulipatam
Point Devi L.
Madras L.
Pondicherry L. (French Govt.)
Caricaul L. (French Govt.)
Negapatam L.
Tanjore
Trichinopoly
Madura
Tinnevelly
Cadiapatam (Mutlam L.)
Scale 1/220 1 inch to the mile or 20275200 of nature

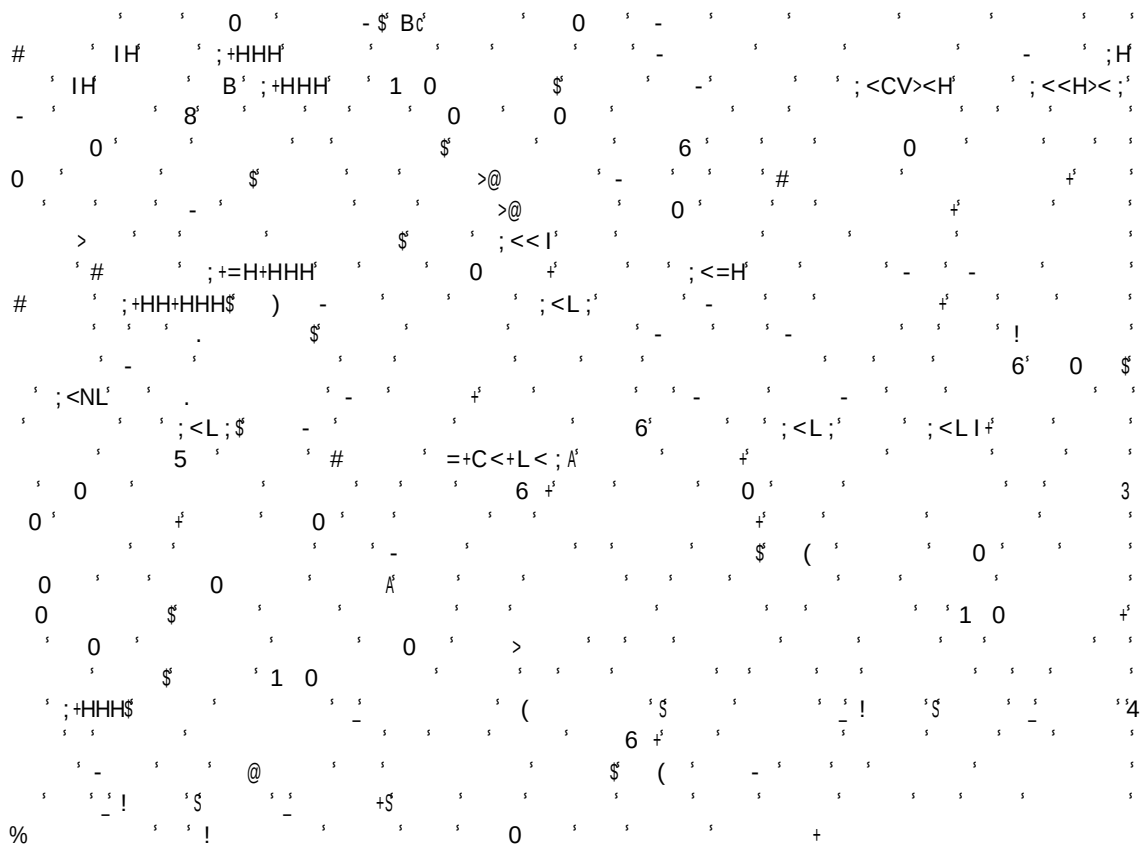


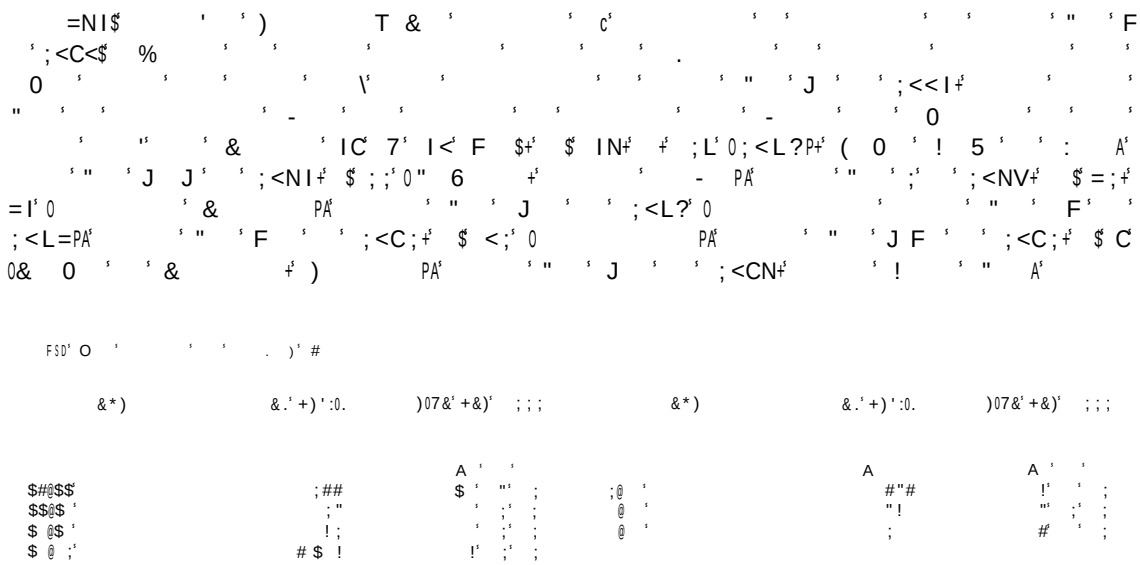


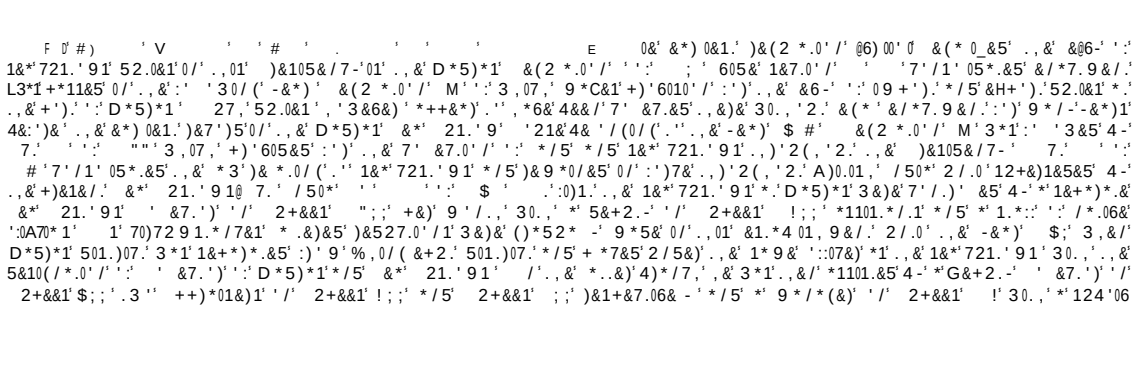


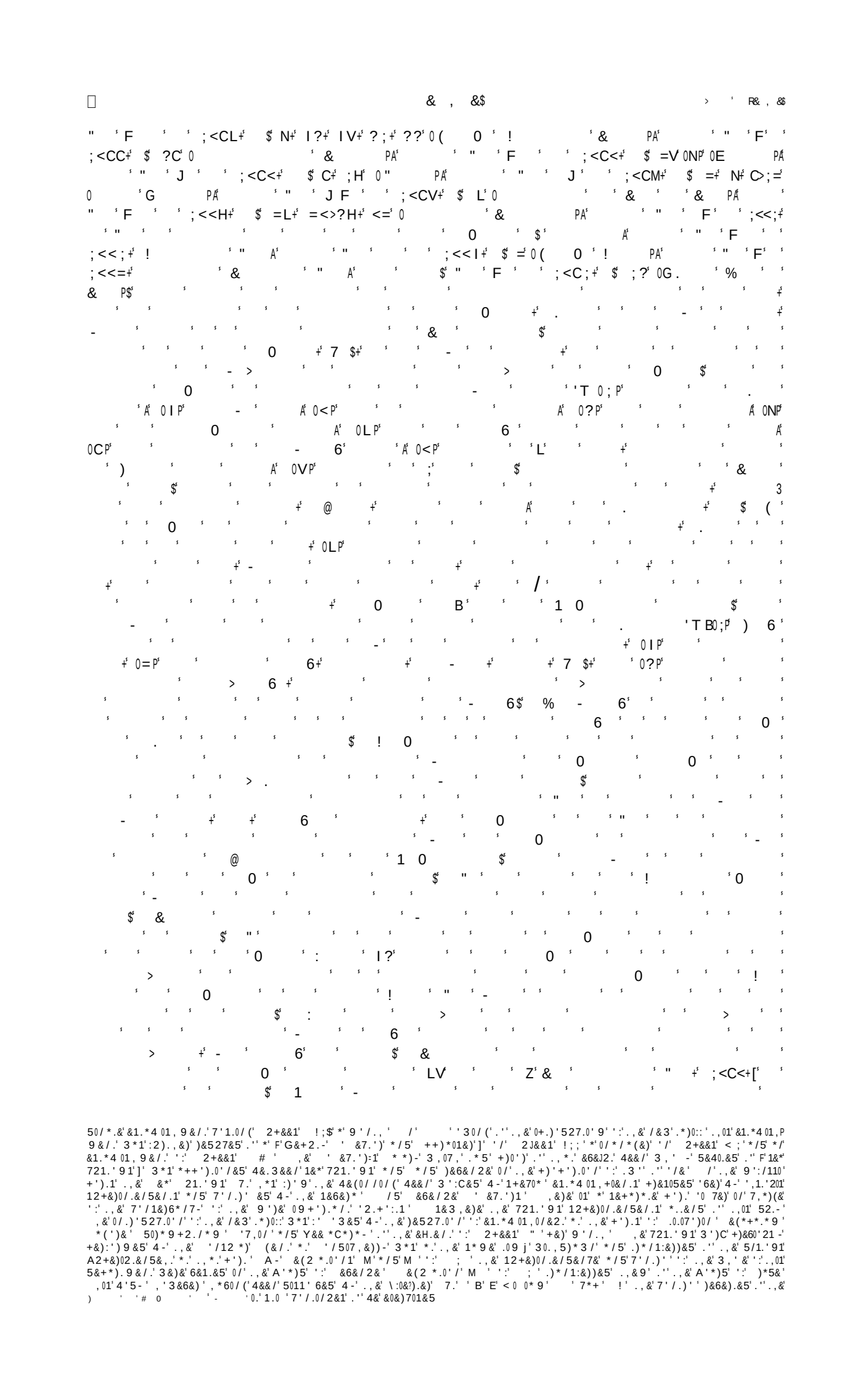


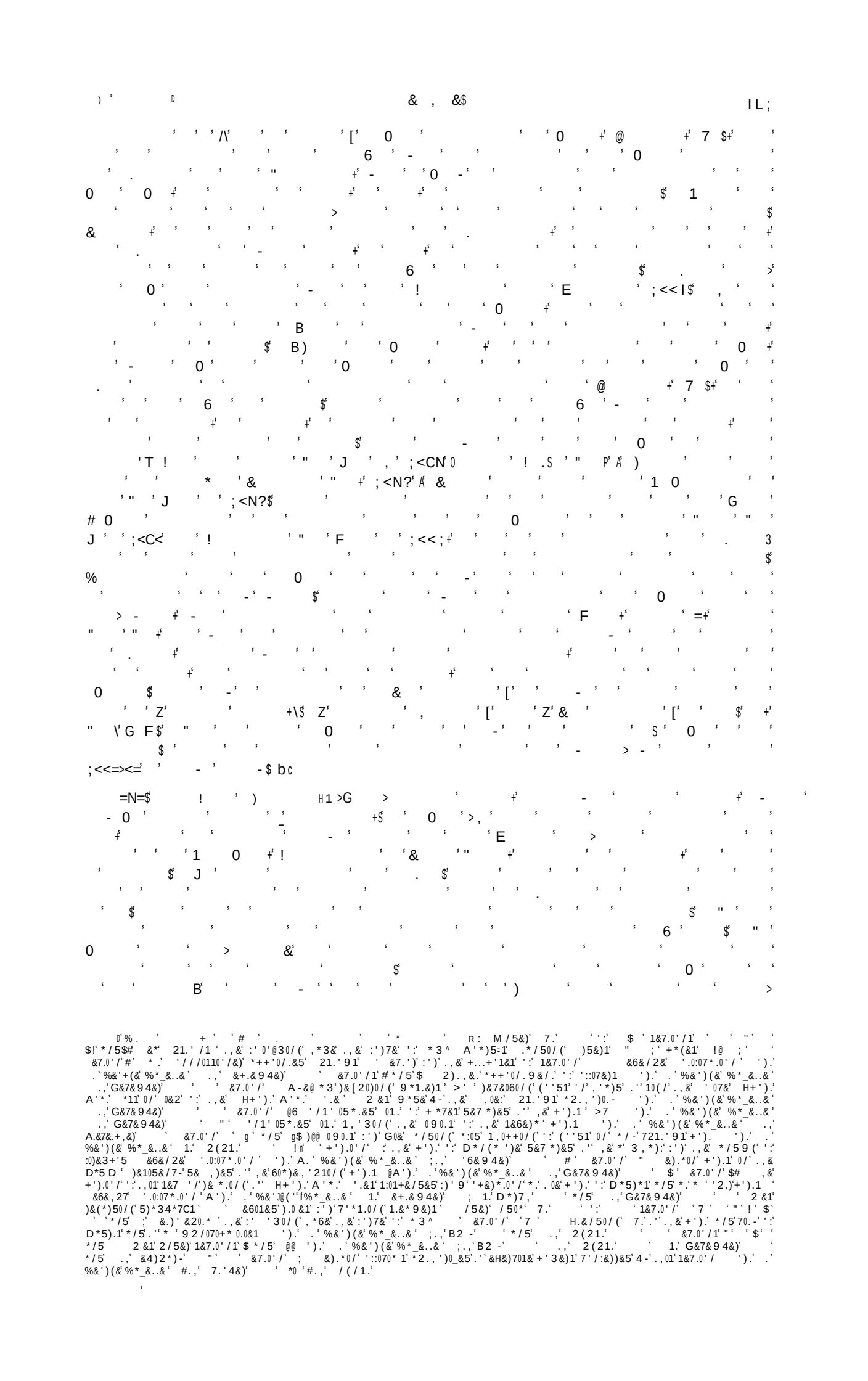


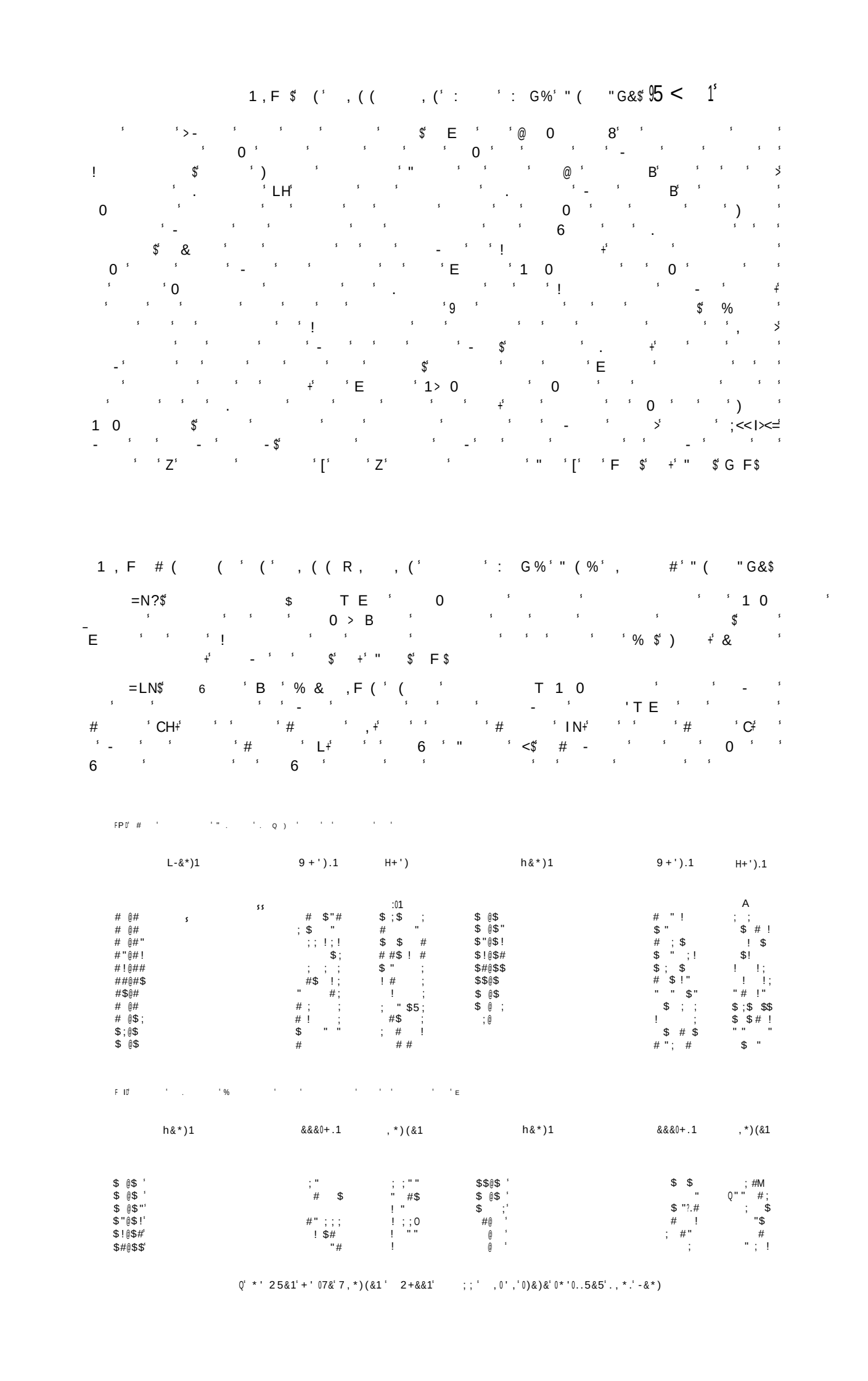


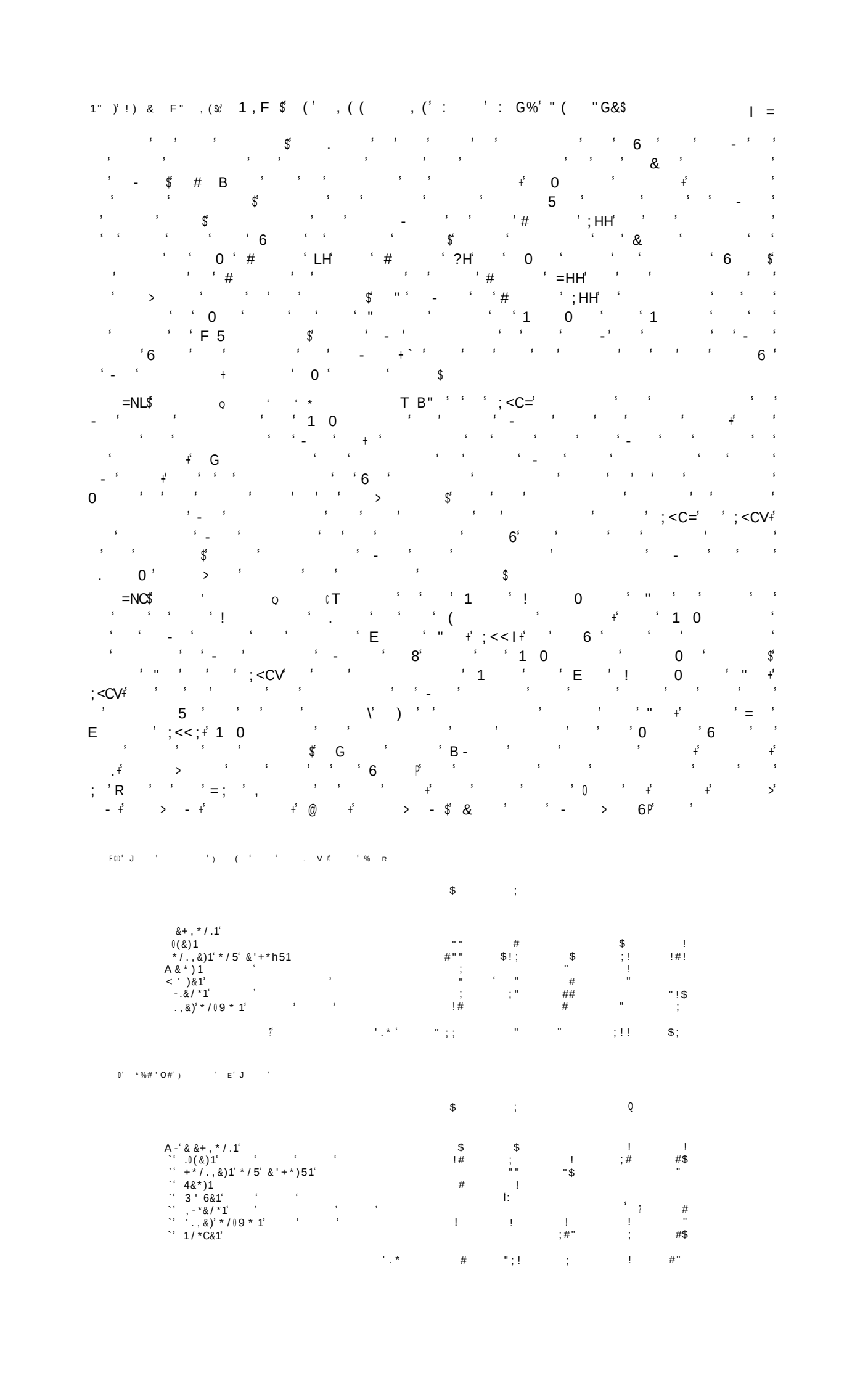


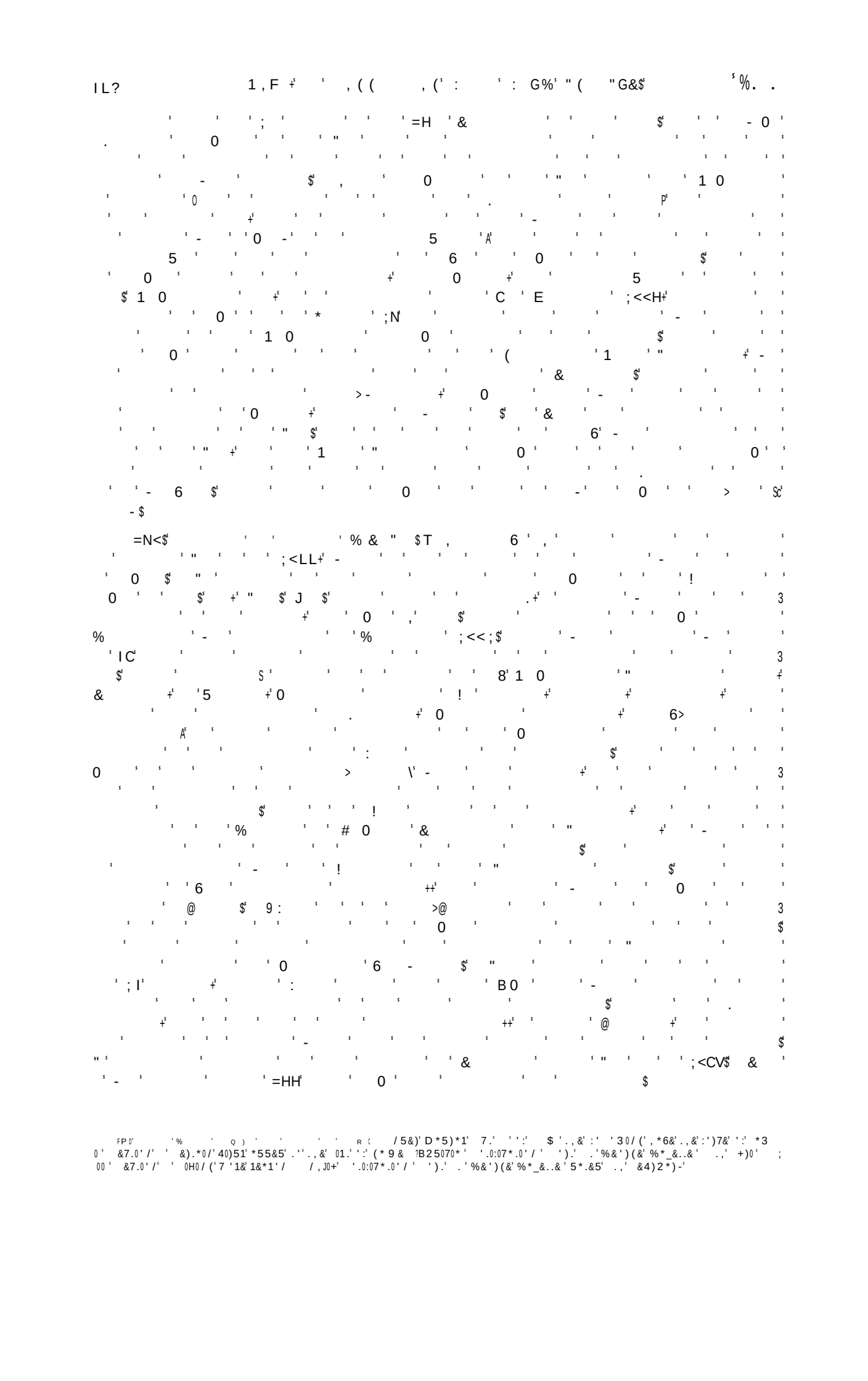












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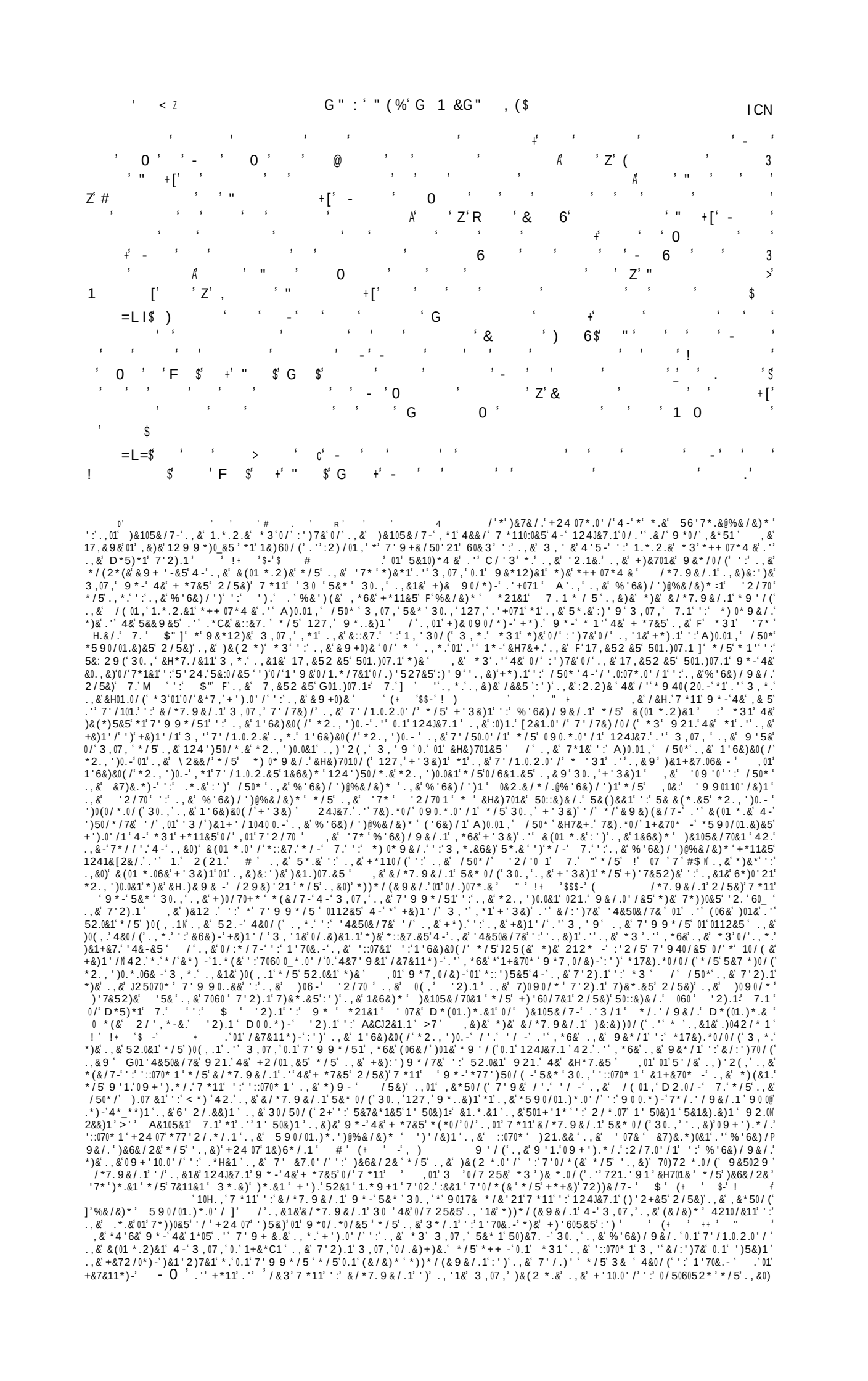
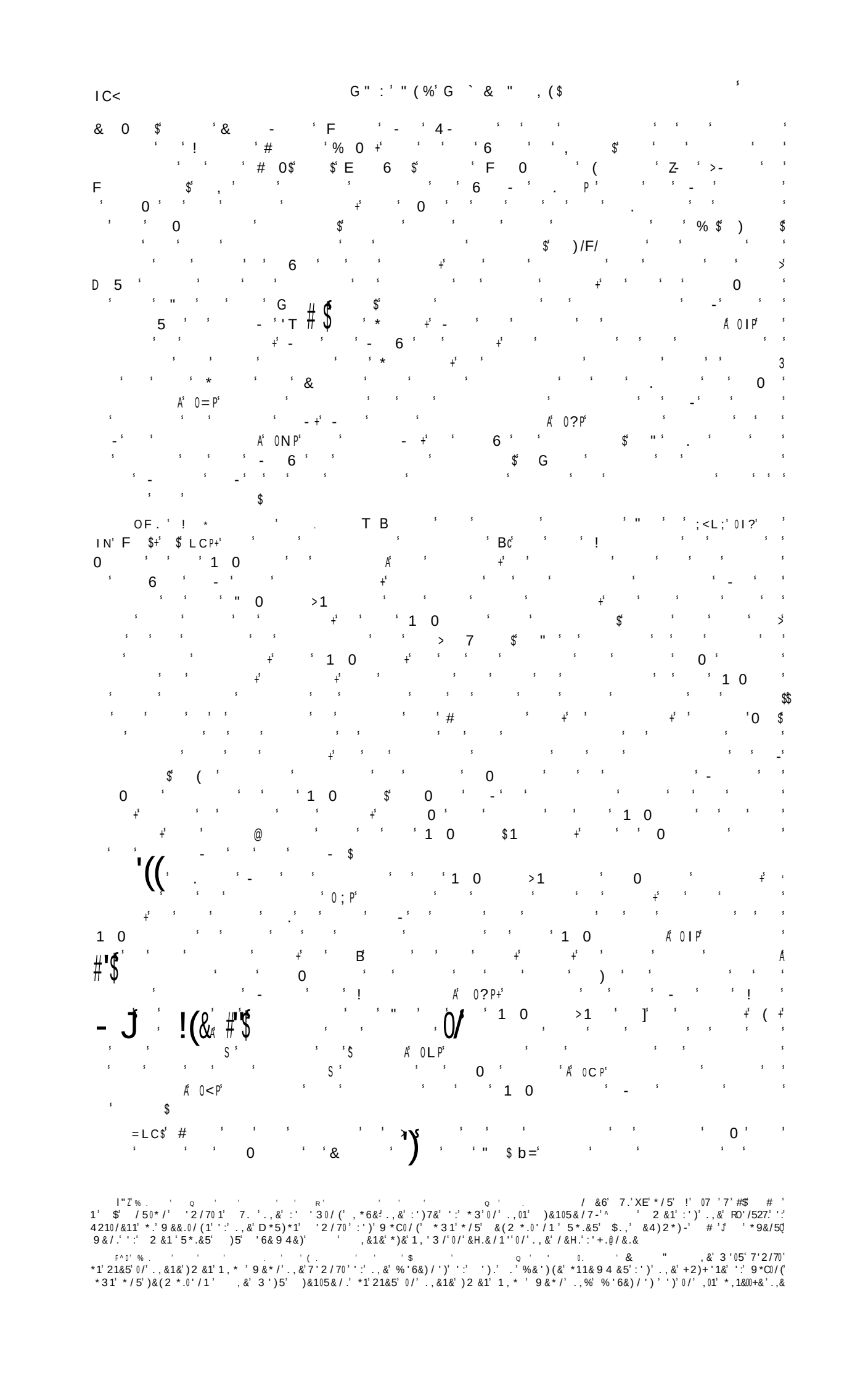
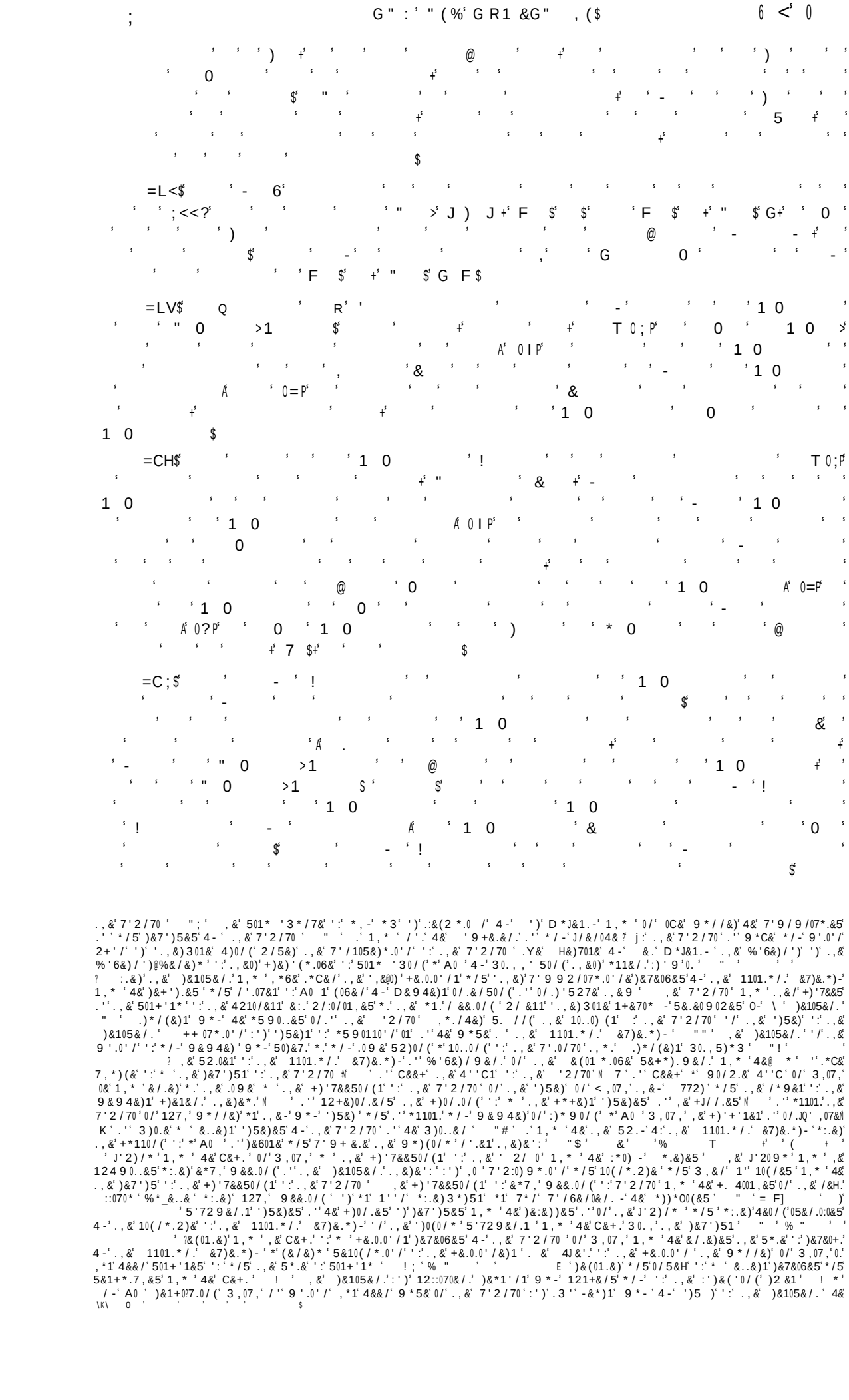
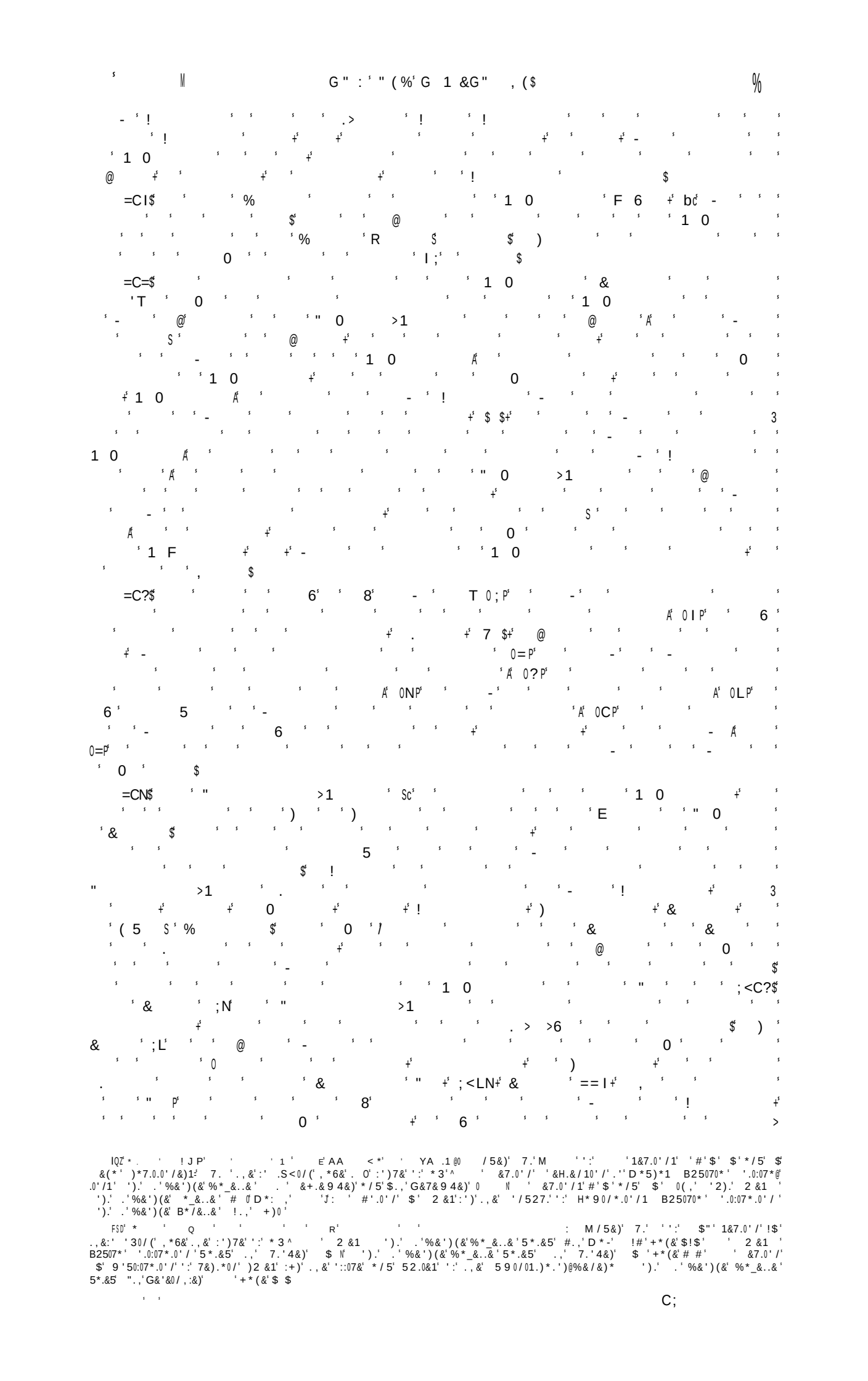
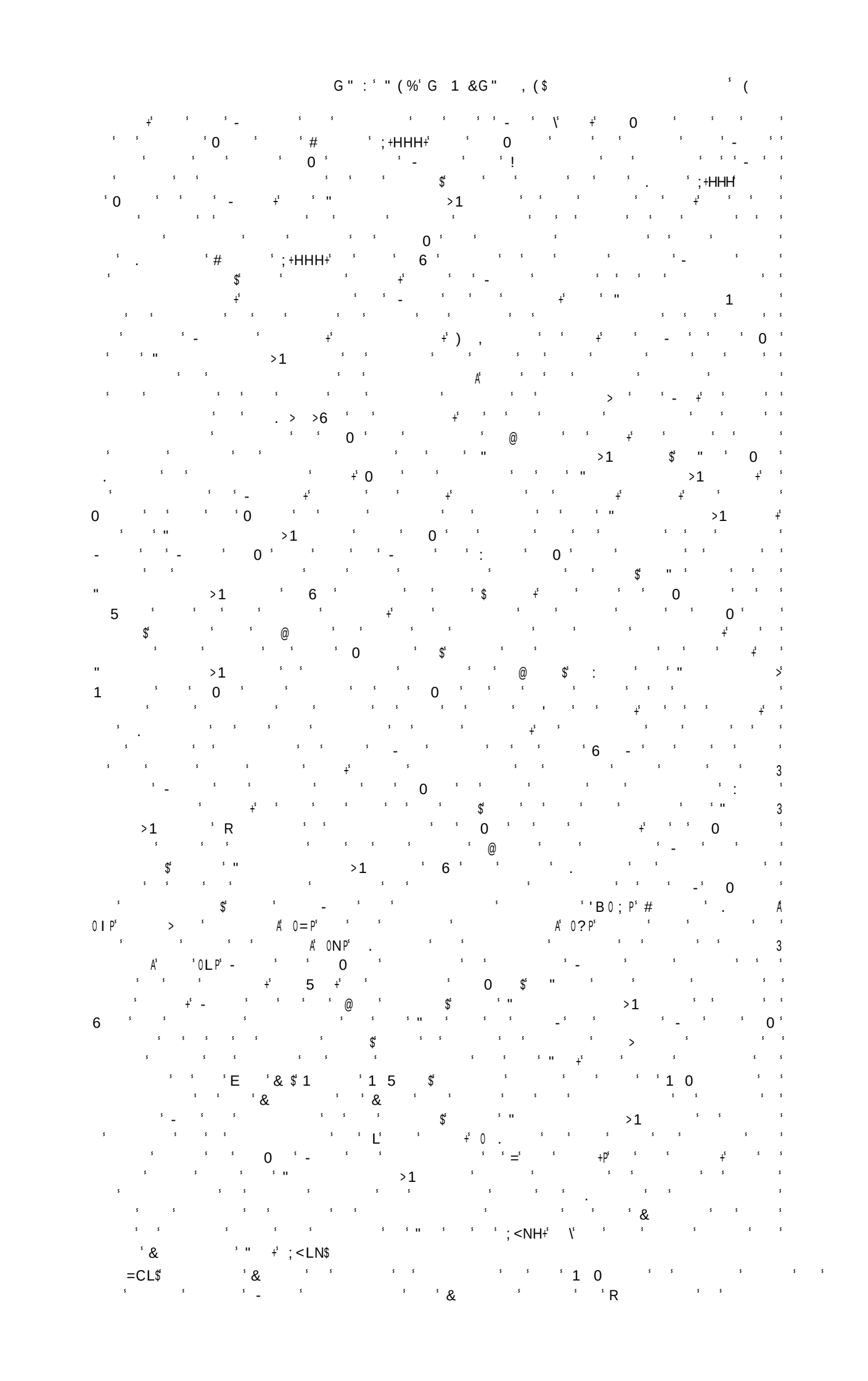
'' +&)1' / 1' .'' 7' 9&' */ 5' 1&.. &' "-' ., *.' + *7&' 0:' *' +)' +&)' */ 5' 7' 9 +&. &/ .' J25070*' *2., ')0.-' 3&)&' &1.*4 01, &5' ., &)&M]' */ 5' :2)., &) ' ., *.' 0.' , *5' 4&&/' :' 2/ 5' 4-' &H+&)0&/ 7&' ., *.' ., &)&' 3&)&' 1' 9&' 5&:&7.1' 0/' ., &' 7, *). &)' ':' $ #' /5&)' ., &1&' 70)72 9 1.*/ 7&1' Y0/ (' %&')(&' ' */ .&5' *' +&3' 7, *). &)' 0/' ., &' -&*)' $! ')&@&1.*4 01, 0/ (' ., &' D*-')1' '2). 1' *.' D*5)*1' A' 9 4*-' */5' *72..*' 30., ' 1' 9&' '.'&6&)-' &)' .&)*' *.&)*0' */ 1' A-' ., 01' 7, *). &)' ., &1&' 7' 2). 1' 3&)&' 0 9 0.&5' 0/' ., &0)' 0P 'J2)01507.0' /' .'' 120.1' 4&.3&&/' +&)1' / 1' / ' ./ *.06&1' ':' ., &' 1*05' 1&6&)*' . ' 3 / 1M */5' 120.1' 4&.3&&/' / *.06&1' 3&)&' 50)&7.&5' / ' .' .''4&' &/ .&).*J &5' 4-' ., &' D*-')1' '2). 1' 2/ &11' 4-' 7' / 1&/ .' ':' ., &' +*).0&1' , &' J2)01507.0' /' ':' ., &' %' 6&)/ P 9&/ .' 7' 2). 1' 0/' 7)0 9 0/ *' *.:.1' 3*1' * 1'' 0 9 0.&5' .'' ':: &/ 7&1' 7' 9 9 0..&5' 30., 0/' ., &' 1&6&)*' . ' 3 / 1' * / 5' ., &' :*7. ')0&1' ')' + *7&1' 124')50/ *.&' ., &)&.' ' 9 0..0/ (' ., &' 3 ')51' F' :)' 30., 0/' .&/' 9 0 &1' ':' ., &' 1* 9&)' 7' / .*0/ &5' 0/' ., &' +)&60' 21' 7., *).&)' 4 ' / ' 6 " L' \ ' ' ' ' ' , &' *1129+.0' /' 4-' ')5' 06&' :)' 9' ., &' *3*4' D&&)' B*: A&)=1' 1' /' 0/' $#!' ':' ., &' G03*/ / -' ')')0(, .' ':' 7' &7.0/ (' ., &')&6&/ 2&' ':' A&/ (*' A&, *)' */ 5')011*' *1' 0.' 3*1' ., &' :0)1.' 1.&+' 4-' ., &' A)0.01, '0/' *41' 2.&' ('6&)/ 9&/ .' ':' *' .&))0.')-' 1'' * 1'' 0/.)' 527&5' :')' ., &' :0)1.' .0 9&' 0/ .'' ., &0)' +&)*.0' /1' ., &')&1+' / 10P 40 0.-' ':' *5 9 0/ 01.&)0/ ('J21.07&' :' &6&)-' 5&17)0+.0' /' */ 5' .'' * '+&)1' /1' 30., 0/' ., &0)' .&))0.')0*' J2)01507.0' / ' &6&)., &&11' 7)0 9 0/ *' J21.07&' 3*1' :')' *' +&)0+00' :' 10H' -&*)1' &:.' 0/' ., &' , */ 51' ':' ., &' *3*4' M */5' &6&/ ':')')&6&/ 2&' */5' 7060' 9*..&)1' / *.06&' *(&/ 7-' 3*1' &9 + '-&5' ., &' (&/ &)*')&1+' / 1040 0.-' ' / -' 4&0/ (' *1129&5' /' $# ' 3 , &/' &)&1.' 3*1' %' 6&)/ ')' ':' A&/ (*' 12+&)601')1' <&)&' *++'0+.&5' :')' ., &' 12+&)0/ .&/ 5&/ 7&' ':' ., &' /*.06&' ':: 07&)1M */5' ., &-' 3&)&' :2)/ 01, &5' 30., '5&.*0 &5' 0/1.)27.0' /1' .'' 0/ [20)&' 0/ .'' ., &' , 01.')-' &H01.0/ (' 1.*.&' +)' 527&' */5' 7*++70.-' ':' ., &' +)' 60/ 7&1' ., &' *9' 2/ ' 4-' , 01' .*&/ 1.' */5')&6&/ 2&1' ., &')&(2 *.0' /1' ':' 7' 9 9&)7&' */5' ., &' *590/01.)*.0' /' ':' J21.07&' '2/ 70 1' 30., ' 12+&)0')' *2., ')0.-' 3&)&' &1.*4 01, &5' *.' D' ')1, &5*4*5' *+5' */' 0/' ., &' :' 30/ (' -&*)' .'' 12+&)0/ .&/ 5' ., &' *590/01.)*.0' /' ':' J21.07&' */5' ., &' 7' &'.0' /' ':' ., &')&6&/ 2&' <+))&/' *1.0/ (1' 3, '', *5' *)&*5-' *7[20)&5' *' 7' /105&)*4 &')&+2.*.0' /' 4-', 01' .*&/ .1' */5' 3, '', *5' 1&)6&5' 30., ' ()&*.')&50.' 0/' A&/ (*' 52)0/ (' ., &' *590/01.)*.0' /' ':' */ 10..*). ' */5' 10/ 7&1' ., &/' /' ., 01' 7' *1.' 3*1' / '3' 9%' 6&)/ ')' ':' A&/ (*', *60/ (' 4&&/' *++'0/ .&5' .'' ., *.' ':' A'& 0/' ., &' +)&7&50/ (' -&*)' /' ')5&)' .'' 7*))-' 0/ .'' &:0 &7.' ., &0)' 5&.&)90/ *.0' / ' ., &' 2).' ':' i 0)&' .')1' *++'0/ .&5' *' 9 90..&&' 7' / 101.0/ (' ':' ., &' %' 6&)/ ')' */5' :' 2)' D&9 4&)1' ':' 2/ 70 M */5' <*))&/' *1.0/ (1' */5' ,01' 7' *5J2.')1' 5)&3' 2+' *')&+'). ' 7' 9 +)010/ (' + */1' :')' ., &' 9 ')&' &::&7.06&' 7' &7.0' /' ':' ., &')&6&/ 2&' */5' ., &' *590, 01.)*.0' ,' ':' J21.07&' ,01')&+'). ' 3 , 07, ' 4&*)1' 30./ &11' .,)' 2(, '2.' ':' ., &' 1' 2/5/ &11' ':' ., &' 60&31' &/ .&).*0/ &5' 4-' ., '1&' <, '' ' 9 +0 &5' 0.' (*6&' *' 5&.*0 &5' *77' 2/.' ':' ., &' D*, ' 9 &5*/' *3' 7' 2). 1' M */5' *:.&)' */ 09 *56&). 0/ (' 1.)' / (-' ' /' ., &0)' 0/ &::0 0 +' -0 +)' 7&&5&5' .'' 1&.':')., '*' + *, ':')' ., &' 9 ')&')&(2 *)' *590/01.)*.0' /' ':' 7060' */5' 7)0 9 0/ *' J21.07&' 1.*.&5' .'' , *6&' 4& , ' :)* 9 &5' 1'' *1' .'' 4&' *5*+.&5' F' .'' ., &' 9 */ /&)1' */5' 2/5&)1.*/50/ (1' ':' ., &' +&' + &' */5' &H0(&/ 70&1' ':' ., &' 7' 2/.)-' *5, &)0/ (' *1' 7' 1& -' *1' +' 1104 &' .'' ., &0)' */ 70&/ .' 21*(&1' */5' 0/ 1.0.2.0' / 1]' ,01' + */' 3*1' *5' +.&5' 4-' ., &' %' 6&)/ 9&/ .' '+' ., &' 1.' ':' 2(21. ' $$ ' /' +2)12*/7&' ':' ., &' + */' ':' ., &' ' 9 90..&&' ., &' H7, &[2&)' */5' ., &')&*12)-' 3&)&' 0& 0')?& ':)' 9' D' ')1, &5*4*5' .'' * 72..*' */5' *' F' A' *)5' ':' &6&/ 2&]' 7' / 101.0/ (' ':' ., &' %' 6&)/ ')' */5' '2/70' 30., ' */' &1.*4 01, 9&/ .' ':' /.06&' ':: 07&)1' 3*' 7' / 1.0.2.&5' *.' ., &' 9 */ *(&9&/ .' /' ./ -' ':' ., &' 7' &7.0' /1' 42.')/ ./ -' ':' ., &' 9 '1.' 09+')./ .' 52:0&1' ':'T., &' 92 /070+*' ('6&)/ 9&/ .' , &' 12+&)601')1' *++'0/ .&5' 2/5&)' &)& 1.:1' 1-1.&9' 4&7. 9 '1'' /' *:.&)' F' ' &7.')1]' ', &' ':' 3, ' 9' +)&105&5' '6&)' &*7, ' 7' / 105&)*4 &' 501.)07. ' *1101.&5' 4-' *' / *.06&' ':: 07&)' */5' ., &' */51' 3&)&' &*1&5' .'' ., &', 0(, &1.' 4055&)' 3, ''7' 2 5' +)' 527&' ., &')&[2010.&' 1&72)0.-' :')')&/ .' :')' *' +&)0' 5' :' :06&' -&*)1' /' &*7, '7' &'.')*.&' 3&)&' &1.*4 01, &5' D':2110' G03*/ / - 5*3 /. ' ')')' 60/ 70*' 060' '2). 1' :')' ., &' *590/01.)*.0' /' ':' 7060' J21.07&' 3, 07, ' 3&)&' +)&105&5' '6&)' 4-' ., &' &7.')1' '/' ., &' +*). ' ':' ., &' '9+*/ -' 0/' ., &0)' 7*+*70.-' ':' Y0/ (=1' G03*/1' *.. &/5&5' 4-' ., &' +)' 60/ 70*' G0<, / ' */5' ., &' ', &)' ':: 07&)1' ':' ., &' &7.')=1' 7' 2). ' ,&1&' .' 'C' 7' (/0_*/ 7&' ':' F' * ' 501+/.& ' 9' &)/0/ (' +)' +&). -')&*' ')' +&)1' / *' * ' 7*21&1' ':' 0/, &)0.*/ 7&' 9*))0*(&' *' /5' 7*1.&' */5' * 7*09 1' ':' 5&4. ' 501+2.&5' *44' 2/.1' 7' /.)*7.1' */5' 5&9*/51' ':')&/ .N]' &H7&+.0/ (' , ' 3&6&)' [2&1.0' /1')& *.0/ (' .'' ., &' 1277&1P 10' /' .'' 8&9 0/5*))-' */5' * 'C5*))-' +)' +&). -' 3, 07, ' 3)4')&1&)6&5' :')' ., &' 5&7010' /' ':' ., &' %' 6&)/ ')' */5' '2/70 ' 7)0 9 0/ *' 7' 2). '1.- &5' ., &' Q43J5*))-' 5*3 2.' 3*1' * 1'' /1.*4 01, &5' 0/' &*7, '501.)07. ' :')' ., &' .)0*' ' :' F' 9 2)5&)')' 44&)-' */5' ., &:.' */5' * ' '., &)' :& ' /0&1' :')(&)-' +&)J2)-' */5' * '1').1' ':' :)*251' */5' 9015&9&*/ ' 2)1' *11*2 .1' :)*-1' [2*))&1' *52 .&)-' */5' &6&)-' '., &)' 4)&*7, ' ' ., &' +&*7&')' 60' &/ .' 0/6*10' /' ':' +)' +&). -']' /' ., &1&')0 9 0/ *' 7' 2). 1' ., &' *2_&&')' D' ':.-' ':' &*7, 501.)07.' <*1' 50)&7.&5' .'' 10.' .'' &H+' 2/5' ., &' *3' ' */5' 5&.&)90/ &' , ' 3':*)' 5&0/ [2&/ .1' 3&)&' (20 .-' ':' */ -' 4)&*7, '., &)&' :N 42.'0.' 3*1' * 1'' +)' 605&5' ., *.' ., &' ' &'.')' ' 2 5' *..&/5' .'' ., &' +)' 7&&50/ (1' */5' 1&&' ., *.' ., &' 5&7010' /' 3*1' +*11&5' 0/' *' :*0)' */5' 09 +*)., 0* ' 9 */ /&)' */ *77')50/ (' .'' ., &' +)' ':1' &H, 040.&5' 3'' 12+&)0')' 7' 2). 1' 3&)&' &1.*4 01, &5' *.' ., &' 7, 0&:' 1&*.' :' %' 6&)/ 9&/ .' .'' 4&' 7* &5' ., &' G03*/ / -' 255&)' 5*3 2.' */5' ., &' 0_*29 2.' 255&)' 5*3 2.N ., &' :')9&)' .'' 4&' +)&105&5' '6&)' 4-' ., &')105&/ .' */5' D&9 4&)1' ':' '2/70 ' *1101.&5' 4-' /*.06&' ':: 07&)1' */5' .'' 4&' *' 7' 2). ' ':' *++&*' 0/' * '7*1&1' 3, &)&' ., &' 501+2.&5' *9 '2/.' &H7&&5&5' ! ; ;')2+&&1M */5' ., &' *..&)' .'' 4&' +)&105&5' '6&)' 4-' *' 7, 0&:' ::07&)' .'' 4&' 7* &5' ., &' G*)' (, *, ' 5*< .' *++'0/ .&5' '/' ., &' +*)./ ' ':' ., &' *2_09 ' *1101.&5' 4-' /*.06&' D*, ' 9&5*/' *3' ':: 07&)1' 30., ' *' 1090*)' 7' /.)' .'' 4&' &H&)0J01&5' 4-' ., &' , 0&:' */5' '2/70 '6<., ')&1+&7.' .'' ., &' +)' 7&&50/ (1' ':' ., &' 7' 2). ' *1' 3*1' 6&1.&5' 0/' ., &' &7.')1' ':' 501.)07.1' 4 ' 0_*292.' 255&)' 5*<2.' <*1' .'')&601&' */5' 7' /:0)9' ., &' 1&/ .&/ 7&1' ':' ., &' 3J5*))-' 5*3 2.1' 0/' 7*+0.*' 7*1 ' *.05' ., 1&' 0/6' 60/ (' :0/&1' &H7&&50/ (' ;;')2+&&1' */5' .'')&:&)' ., &' :')9&)' .'' ., &' *2_09' :')' ,01' 1&2.&/&&' /' *550.0' /' :' '..C&1&' 7' 2).1' ., &)&' 3&)&' * 1'' 124')50/ *.&' /&1' ':')0(0/ *' 124')50/ *.&' ., &' 1277&1*10' /' .' ., &' +)' 60/ 70*' 506010' /1' ' , &' , &*5' :*)9&)1' ':' &*7, ' &)(2/ /*, ' *60/ (' *' :0/*' J25(9&/ .' 0/' *' 501+2.&1' /' .' &H7&&50/ (' .&/ ')2+&&1' */5' ., &' ' &7.')1' */5' 1' 9&' ':' ., &' 124')50/ *.&' ::07&)1' 4&0/ (' 0/6&1.&5' 30., ' 7&).*0/ ' +' 3&)1' *1' D*(01.)*.&1':')' ., &')&(*.0' +' ':' ., &' +' 07&' /&' ':' ., ' &*50/ (' :&*.2)&1' ':' ., 01' +*/ <*1' ., *.' 0/' ., &' 706 ' 7' 2). 1' D*, ' 9&5*/1' */5' 0/5' '1' 3&-&/ .0. &5' .'' ., &' +*3'1' 0/*' *1' 120.1')&(*50/ (' 0/, &)0.*/7&' 9*))0*(&' *1.&' */5' ., &)')&0(0' /1' 1*(&1' */5' 0/1.0.2.0' /1' 0B*.06&' *(&/7-' 3*1' *)(&-' &9+' -&5' *.' ., 01' .09&' 0/' ., &' 7' 2). 1-1.&9' 4&7*21&' ., &)&' 3&.&' /'' 9&*/1' ':')&+ *70/ ('0. ', &' ' 9+*/-=1' 2)' +&*/' 1&)6*/.1' /' ./ C/' 30/ (' &/' 2(, ''.' &0., &)' ., &' *3' ')' ., &' */ (2*(&' ':' ., &' 7' 2/.)-' + ' " ' &, &' *))*/(&9&/.1' , &)&' 9&/.0' /&5' :')' ., &' A&/ (*' .&))0.')0&1' <&)&' 7' +0&5' 0/' * ' +*).072*)1' 0+' '., &)' .&))0.')0&1N :')' 0/1.*/7&1' 0/' ., &' F' B*(, &9&)']')2/5' D*5)*1' *7[20)&5' 0/' $#!' 0+' ., &' F ')., &)/ 0)7* 1]' *7[20)&5' 0/' $##' */5' 0/' ., &' F' %' '/.'')' 0)7*)]' *7[20)&5' 0/' $$ ' , &' D*5)*1' D*-)=' '2).')&.*0/&5' * ' 0.1' :')9&)' +' 3&)1' 30., 0/' 0.1' '3/' .&))0.')0*' J2)01507.0' /' ' * ' % " + "' ' ' + ' ' $$ /' $$ ' 501+2.&1' 4&.3&&/' ., &' '9+*/-' */5' ., &')' 3/')&12 .&5' 0/' ., &' F' &7' /P 1.)27.0' /' 7.]' ')' */1' 0.' 01' 9 ')&/(&/)*' -' /*9&5' ., &' F' &(2 *.0/ (' 7.']' '%&' ' ' '# ' ,01' 3*1' ., &' :0)1.' 7.' 3, 07, ' 50)&7. -' +)' 605&5' :')' ., &' :')9' ':' ('6&)/9&/ .' 0/' /50*' */5' (*6&' 0.' *' 1.*.2.&' 4' 'C' ':' 0.1' '3/' .' +)' 605&5' ., *.' ., &' %' 6&)/9&/ .' ':' A&/ (*'1, '2 5' 7' /101.' ':' *' %' 6&)/ ')@%&/&)*' */5' '2/70' ':' :' 2)' 2/'0 ')1' J */5' ., 01' 3*1' .'' 4&' ., &' 2+)&9&' %' 6&0 9 9&/ .' 124J&7.' .'' ., &' 7' /.)' ' ':' ., &' ' 9&' *2., ')0.0&1' &(01 *.06&' +' 3&)1' 3&)&' (06&/' 2/5&)' ., 01' 1.*.2.&' . ' ., &' %' 6&)/ ')@%&/&)* ':')' ., &' F &.. &9&/.' ':' ').' <0 *9']' */5' ., &)' :*7.')0&1' */5' +*7&1' 124')50/ *.&' ., &)&.' ' ., &' *31' :' ., j')&* 9]' ' *31' 3&)&' .'' 4&')&(01.&)&5' 0/' ., &' 2+)&9&' '2).' ':' B2507*.2)&' *.' *72..*' 0/' ')5&)' .'' (06&' ., &9' *+' .-' D*5)*1' */5' A' 94*-' 3&)&' *.' ., *.' .09&' (06&/' /''7'))&1+/50/ (' +' 3&)1' ':' 9*C0/ (')&(2 *.0' /1' ' <*))&/' 1:0/ (' 3*1' ., &' :0)1.' %' 6&)/ ')@%&/&)* ' ' * ' ' (' # ' (,&' &(2P *.0/ (' 7.' :2)., &)' +)' 605&5' :')' ., &' &1.*4 01, 9&/ .' ':' *' 2+)&9&' '2).' ':' B21.07&' *.' *72..*' 7' /101.0/ (' ':' *' ,0&:

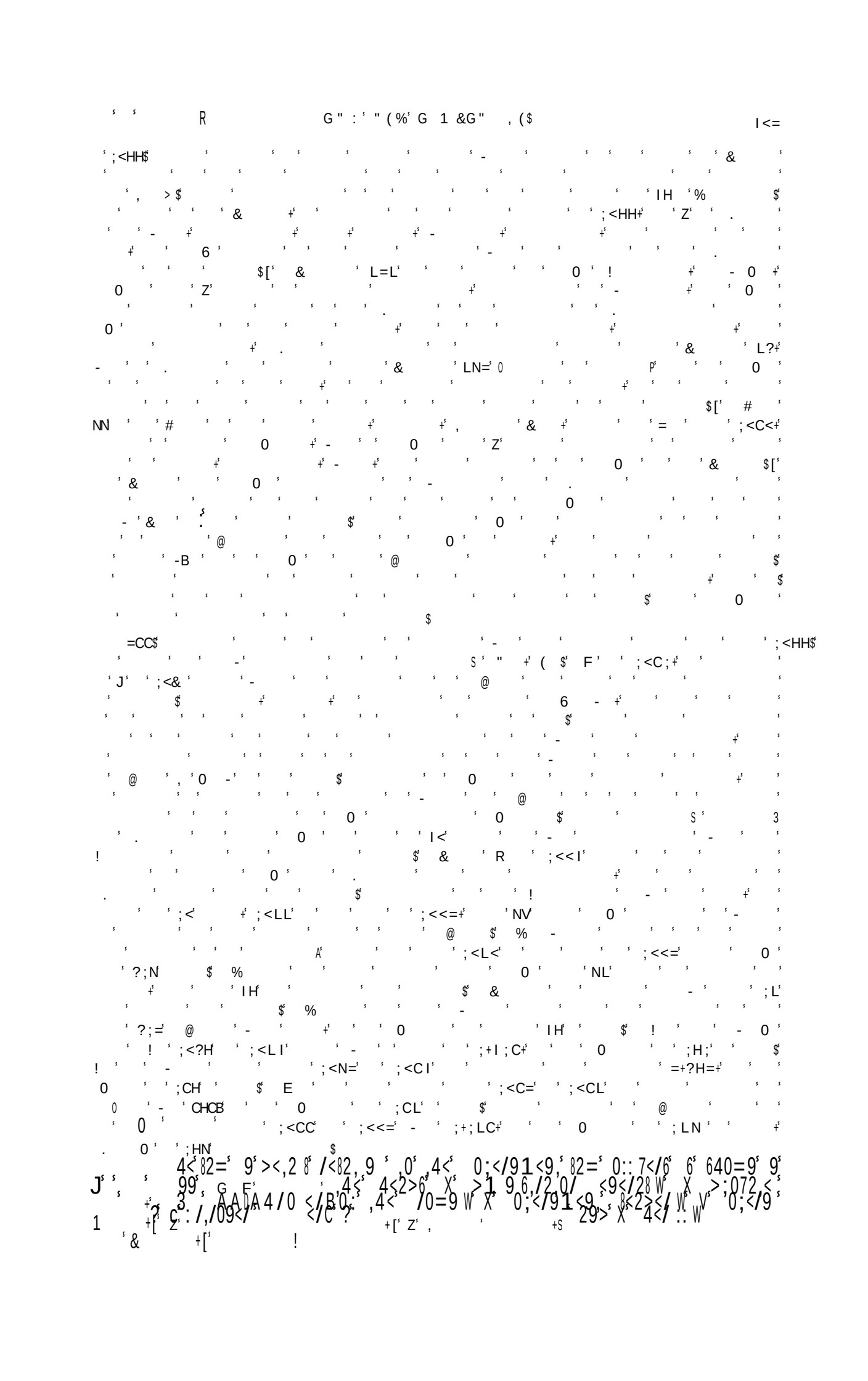












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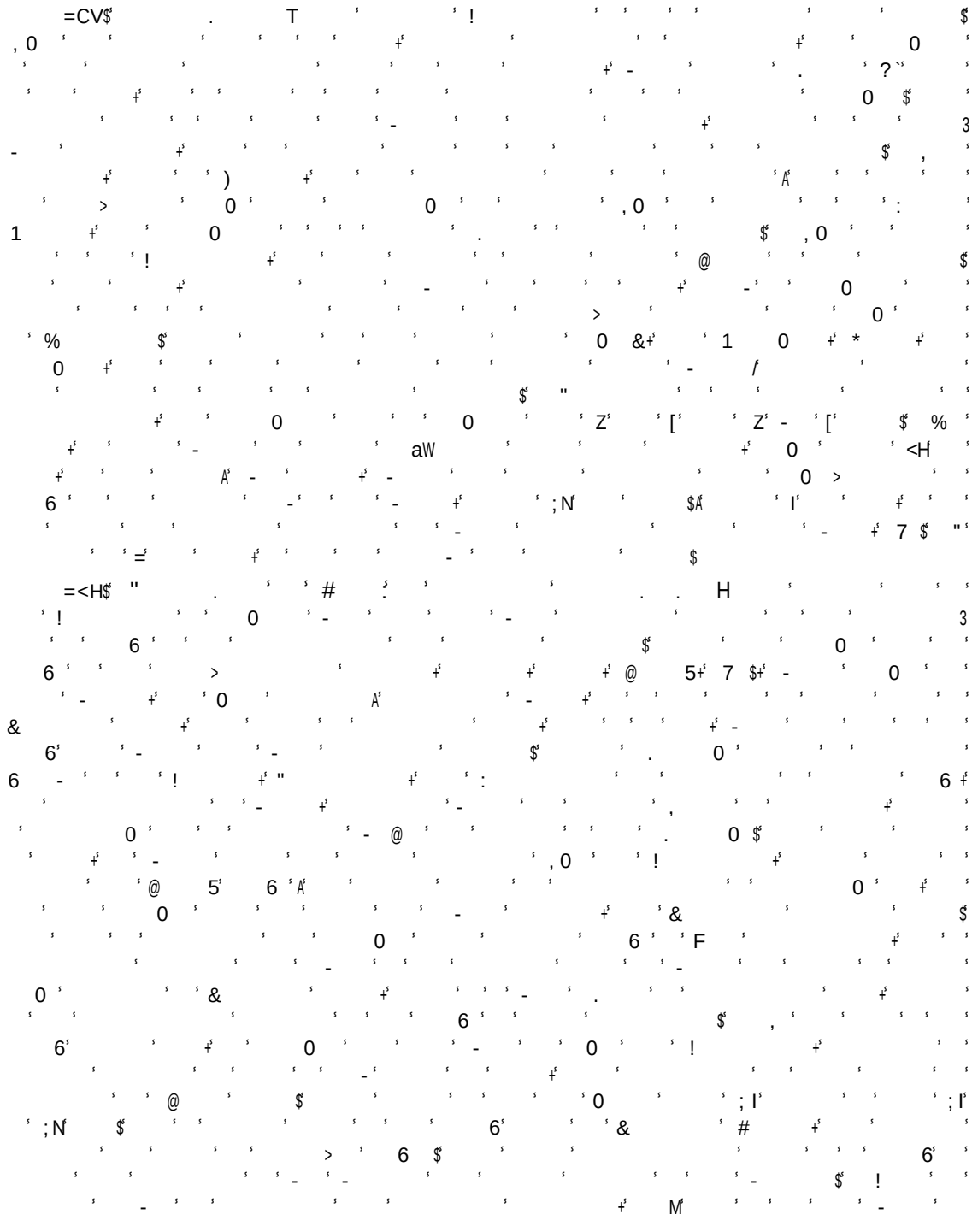

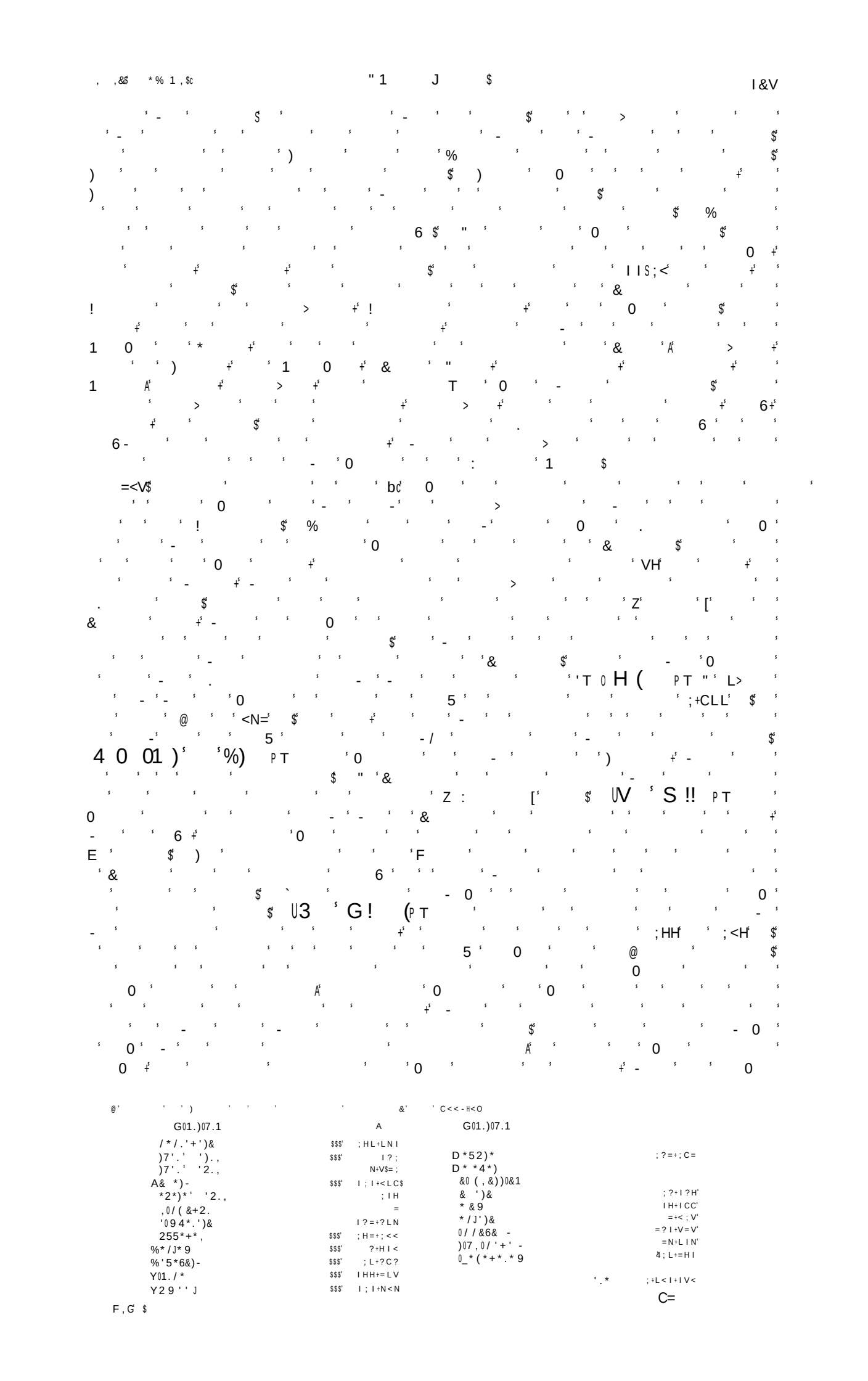

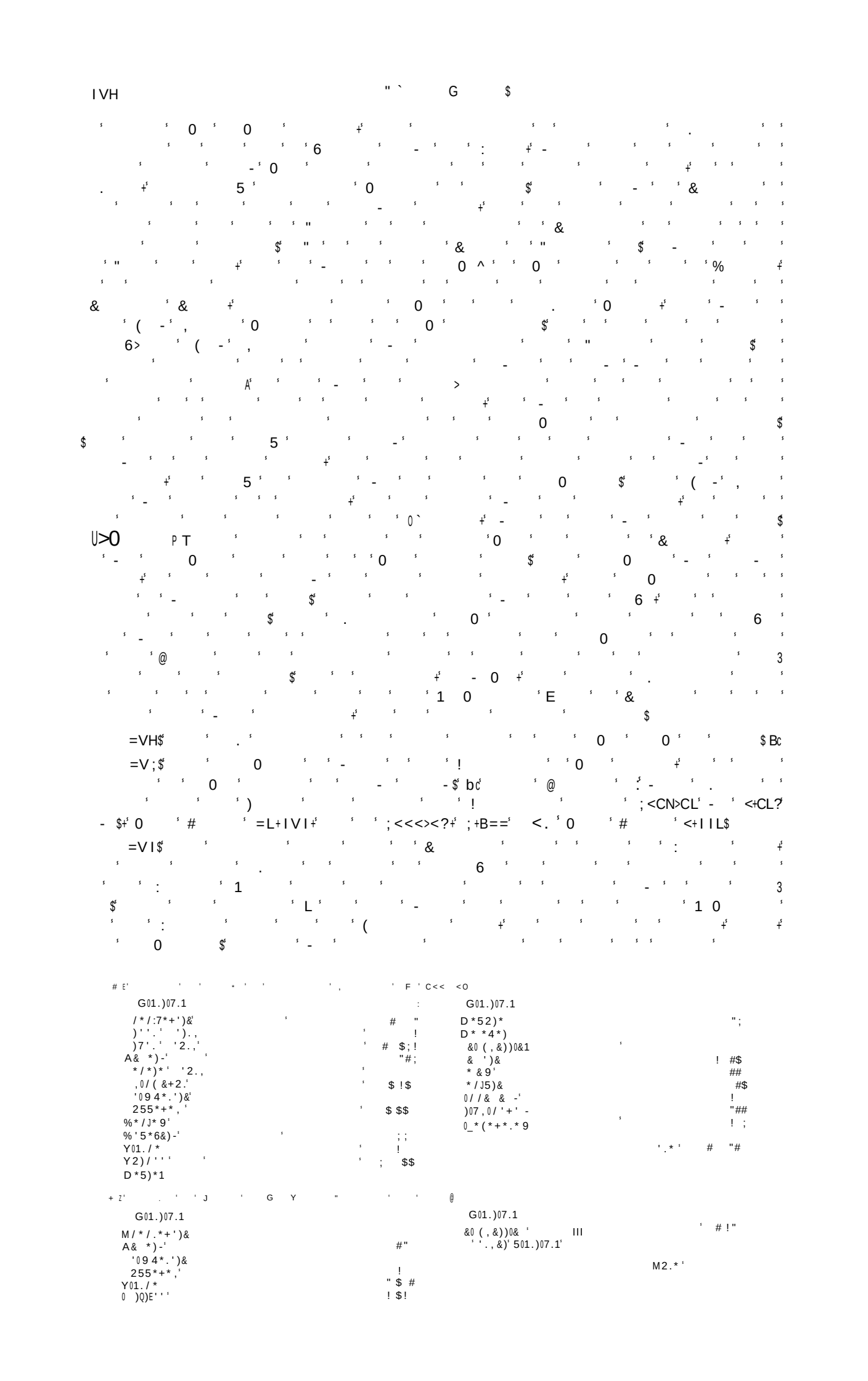

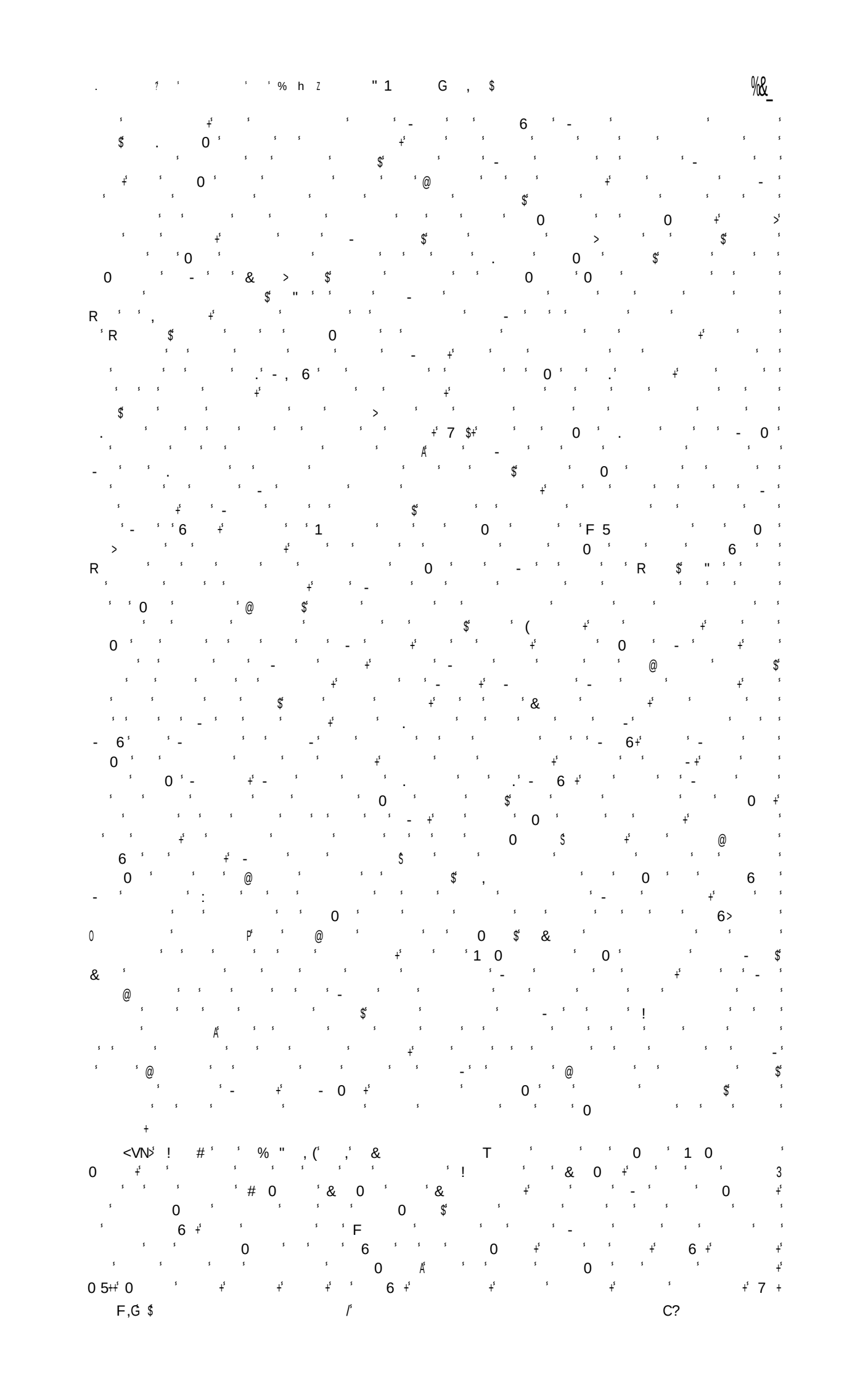

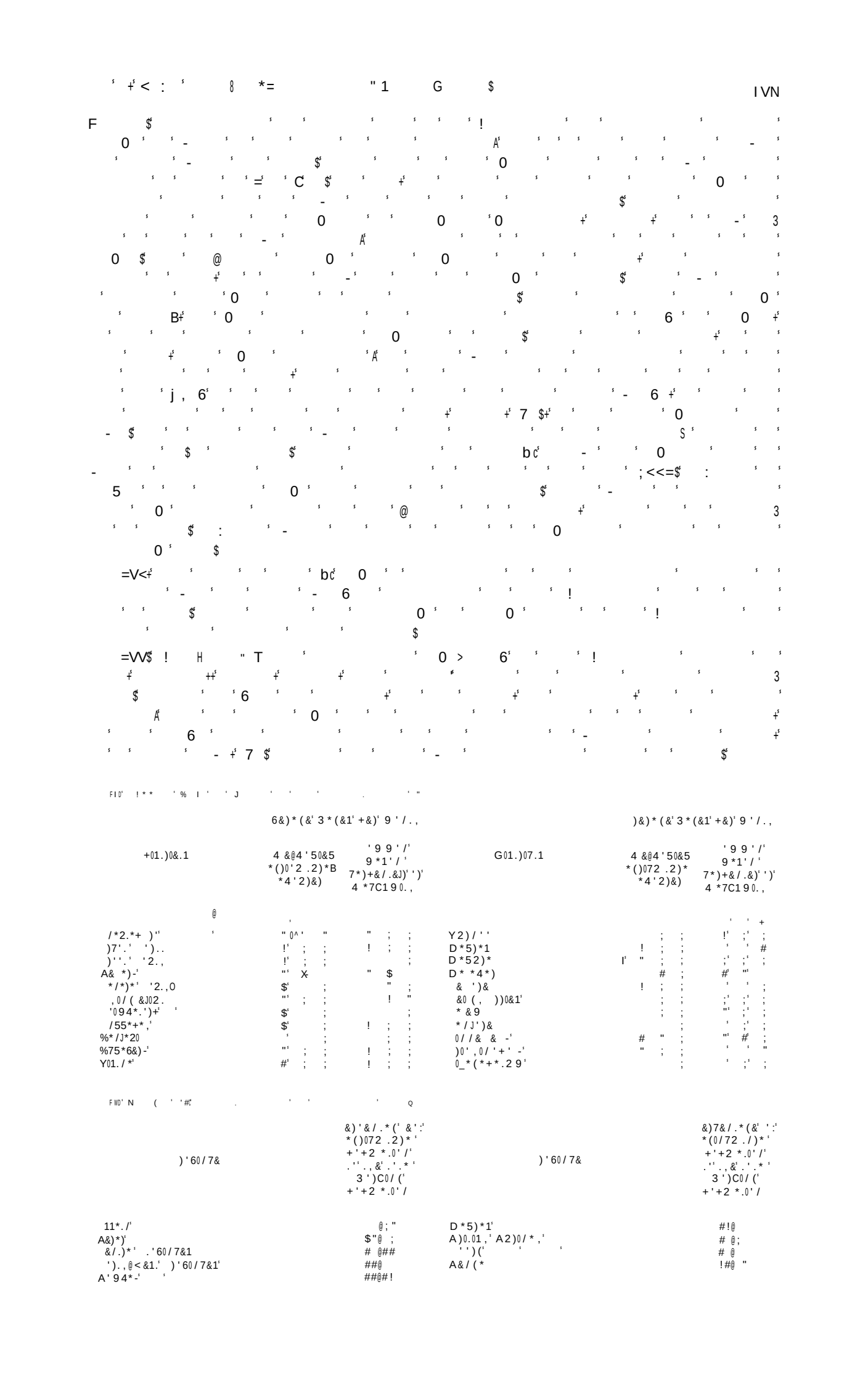

FIG' !** '%I ' 'J ' ' ' . ' "

	6&)*(&'3*(&1'+&)'9'/.,		)&)*(&'3*(&1'+&)'9'/.,	
+01.)0&.1	4 &@4'50&5 *()0'2 .2)*B *4'2)&)	'9 9'/' 9*1'/' 7*)+&/.&J)'')' 4 *7C19 0.,	G01.)07.1	4 &@4'50&5 *()072 .2)* *4'2)&)	'9 9'/' 9*1'/' 7*)+&/.&)'')' 4 *7C19 0.,
@					
/*2.*+)*'	"0^' "	" ; ;	Y2)/''	; ;	!' ;' ;
)7'.' ')..	!' ; ;	! ; ;	D*5)*1	! ; ;	' ' #
)''.' '2.,	!' ; ;	;	D*52)*	I' " ; ;	;' ;' ;
A& *)-'	"' X	" $	D* *4*)	# ;	#' "'
/)*' '2.,0	$' ;	" ;	& ')&	! ; ;	' ' ;
,0/(&J02.	"' ; ;	! "	&0 (,))0&1'	; ;	;' ;' ;
'094*.')+' '	$' ;	;	* &9	; ;	"' ;' ;
/55*+*,'	$' ;	! ; ;	*/J')&	; ;	' ;' ;
%*/J*20	' ;	; ;	0//& & -'	# " ;	"' #' ;
%75*6&)-'	"' ; ;	! ; ;	)0',0/'+' -'	" ; ;	' ' "
Y01./*'	#' ; ;	! ; ;	0_*(*+*.29'	;	' ;' ;

FWD' N (' '#' . ' ' ' Q

	&)'&/.*(' &':' *()072 .2)*' +'+2 *.0'/' .'' .,&' .'.*' 3')C0/(' +'+2 *.0'/		&)7&/.*(&' ':' *(0/72 ./)*' +'+2 *.0'/' .'' .,&' .'.*' 3')C0/(' +'+2 *.0'/
)'60/7&		)'60/7&	
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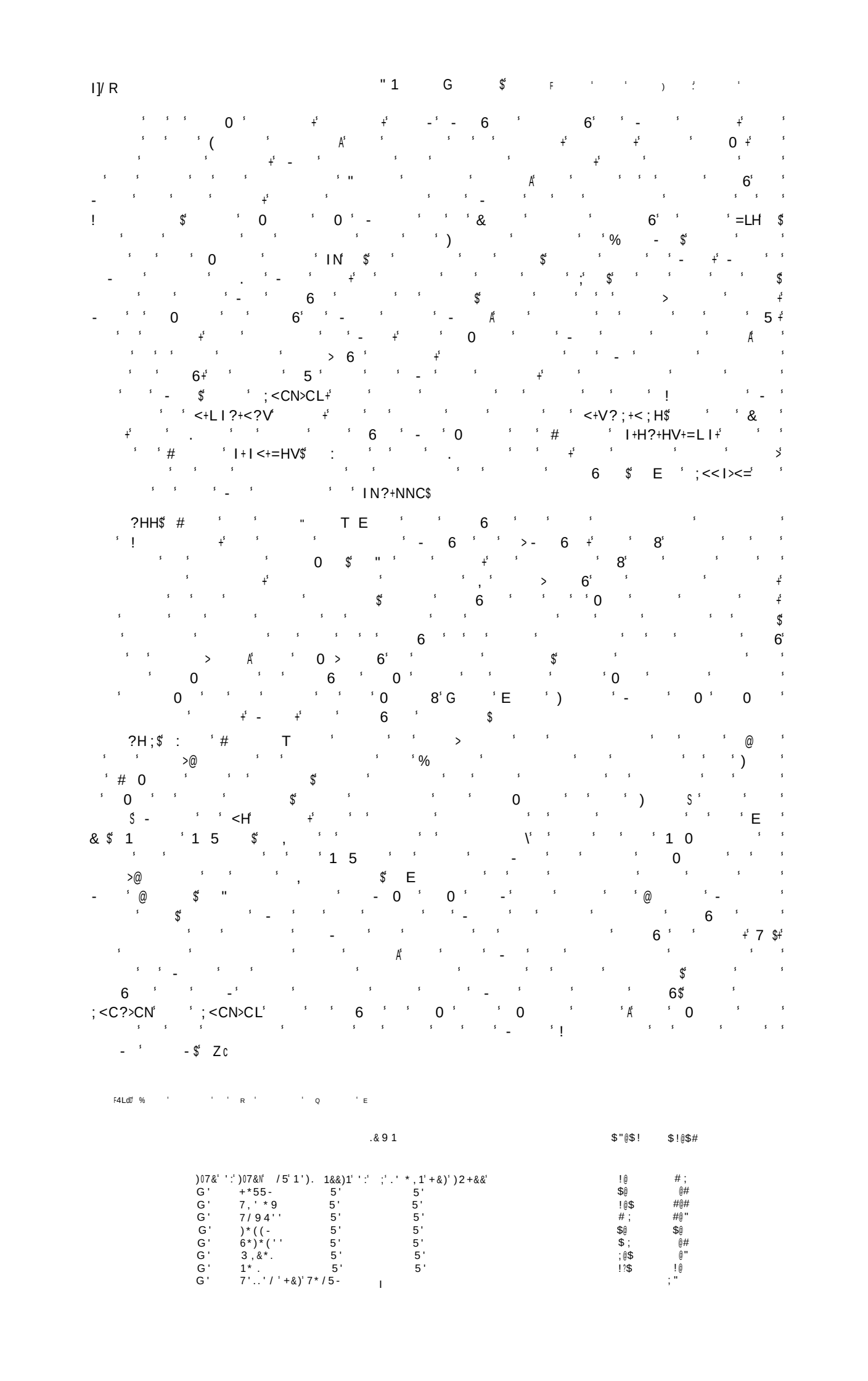

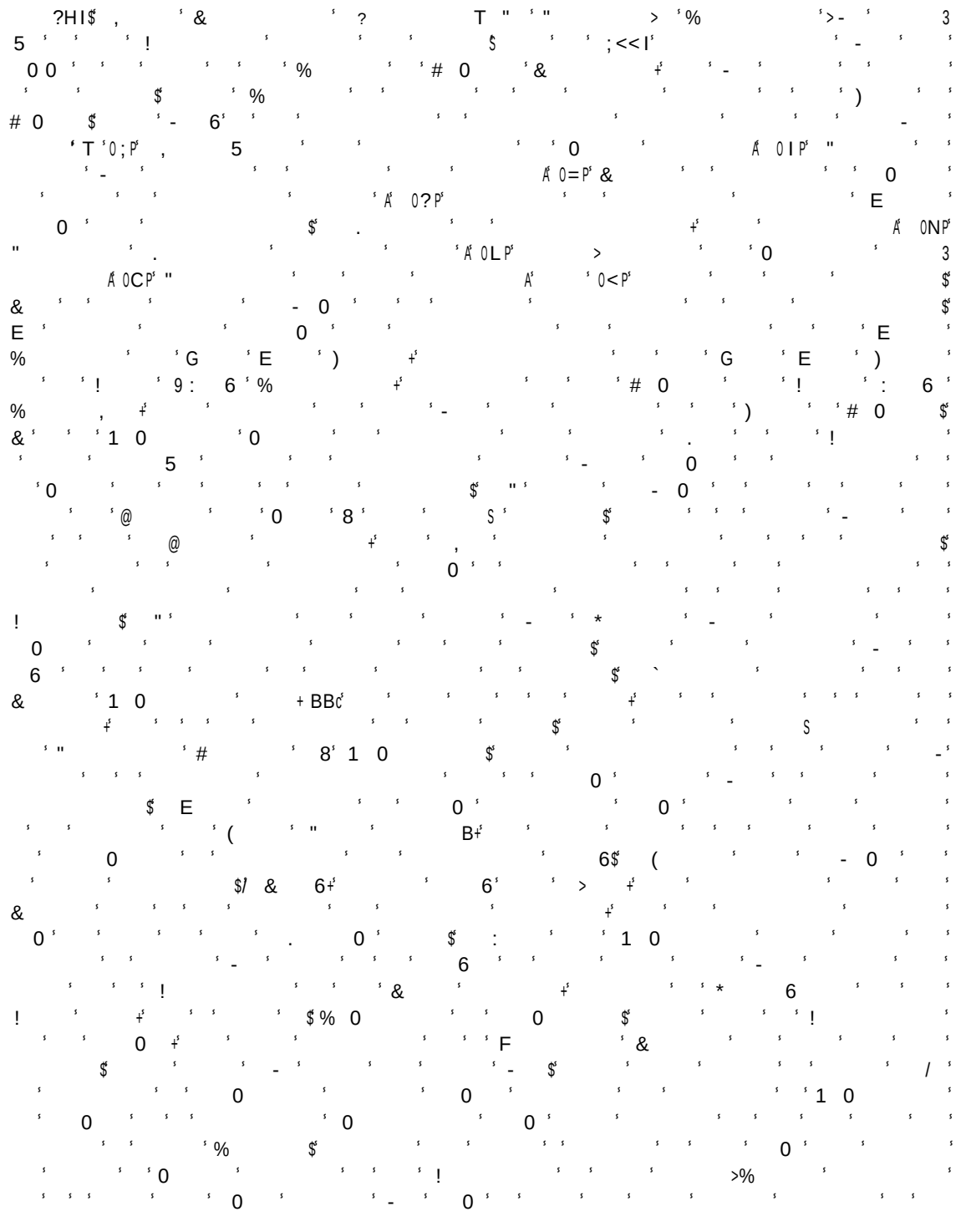

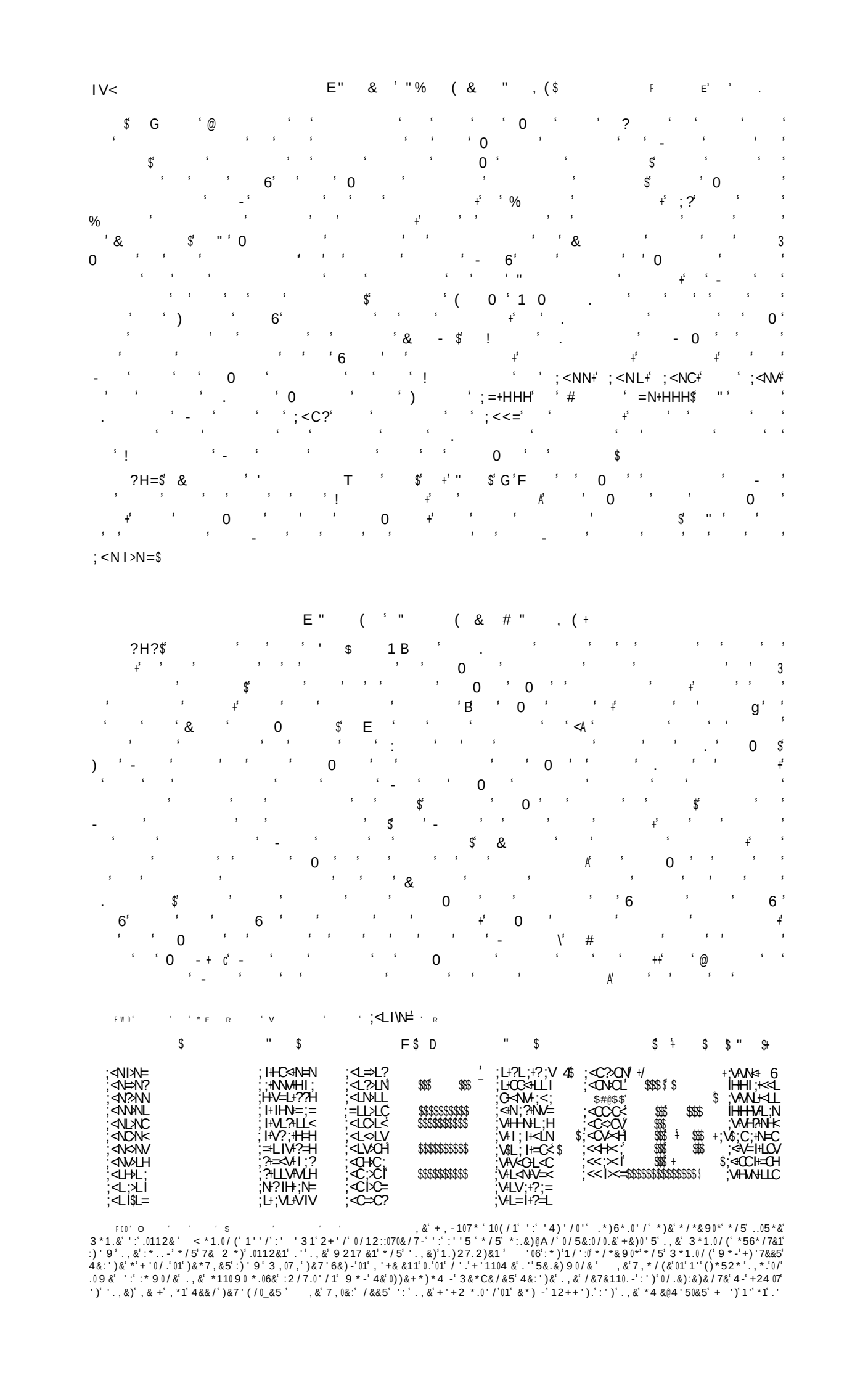

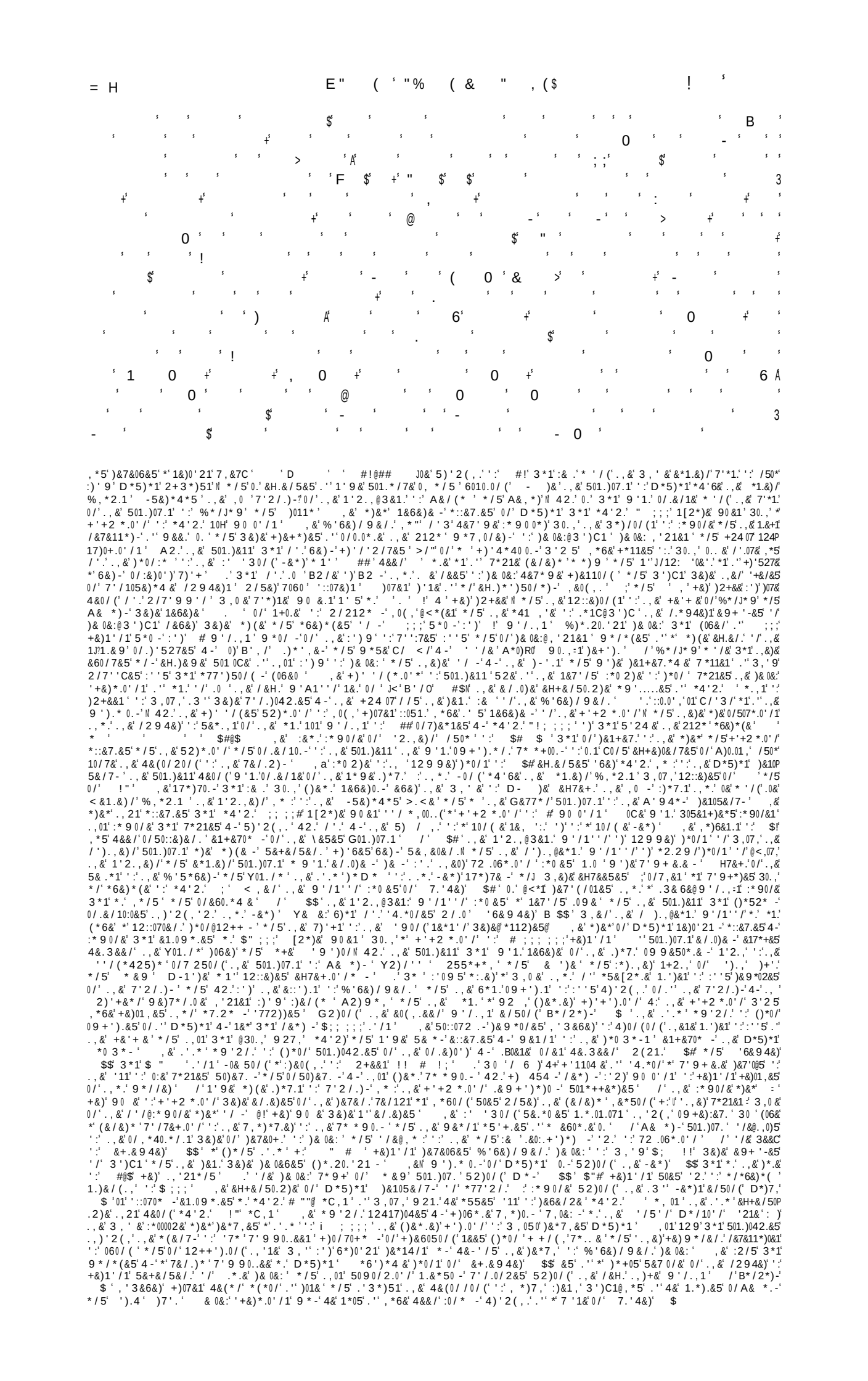

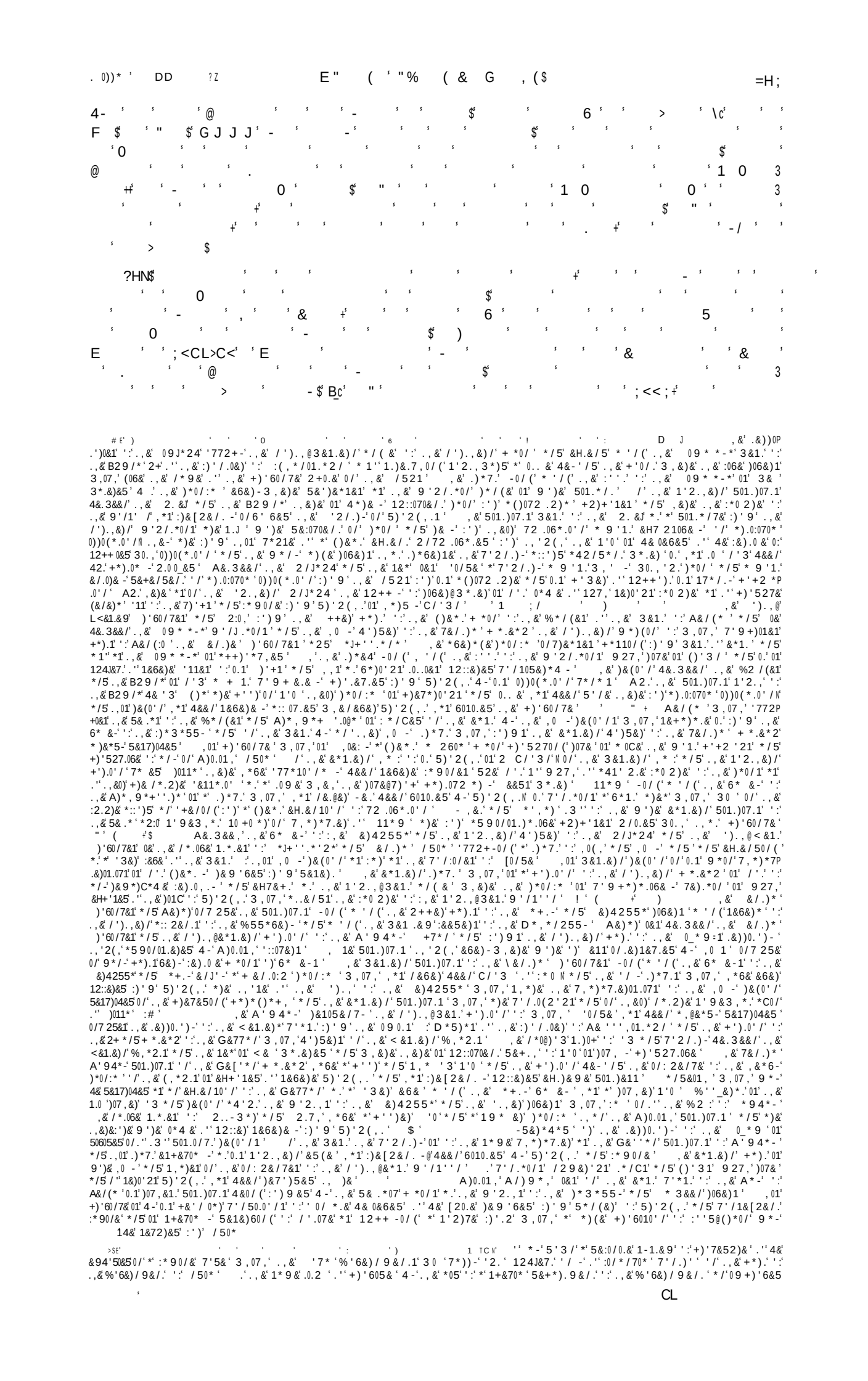

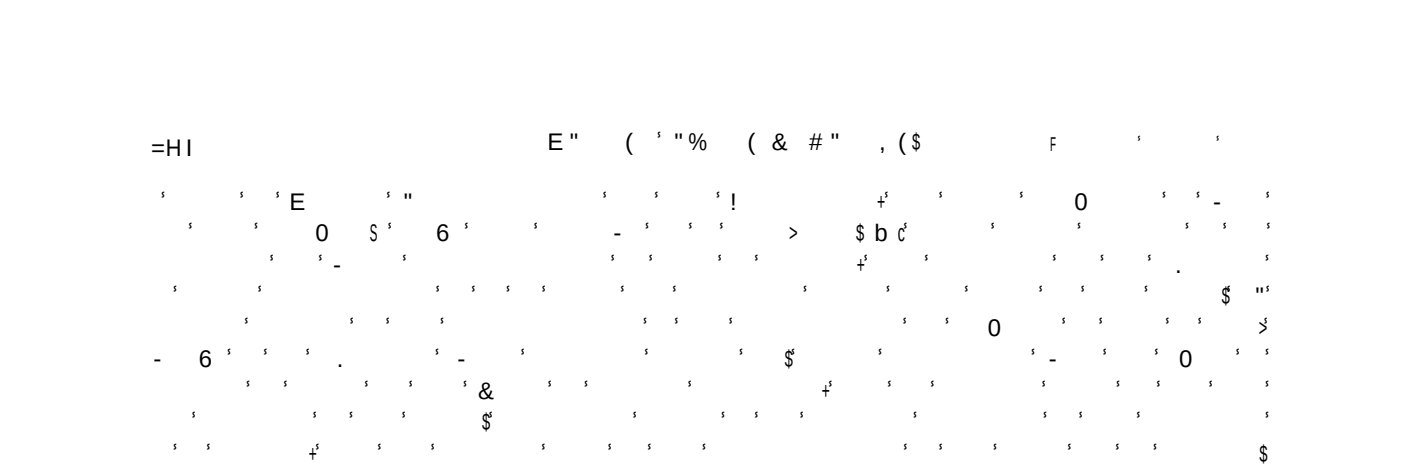

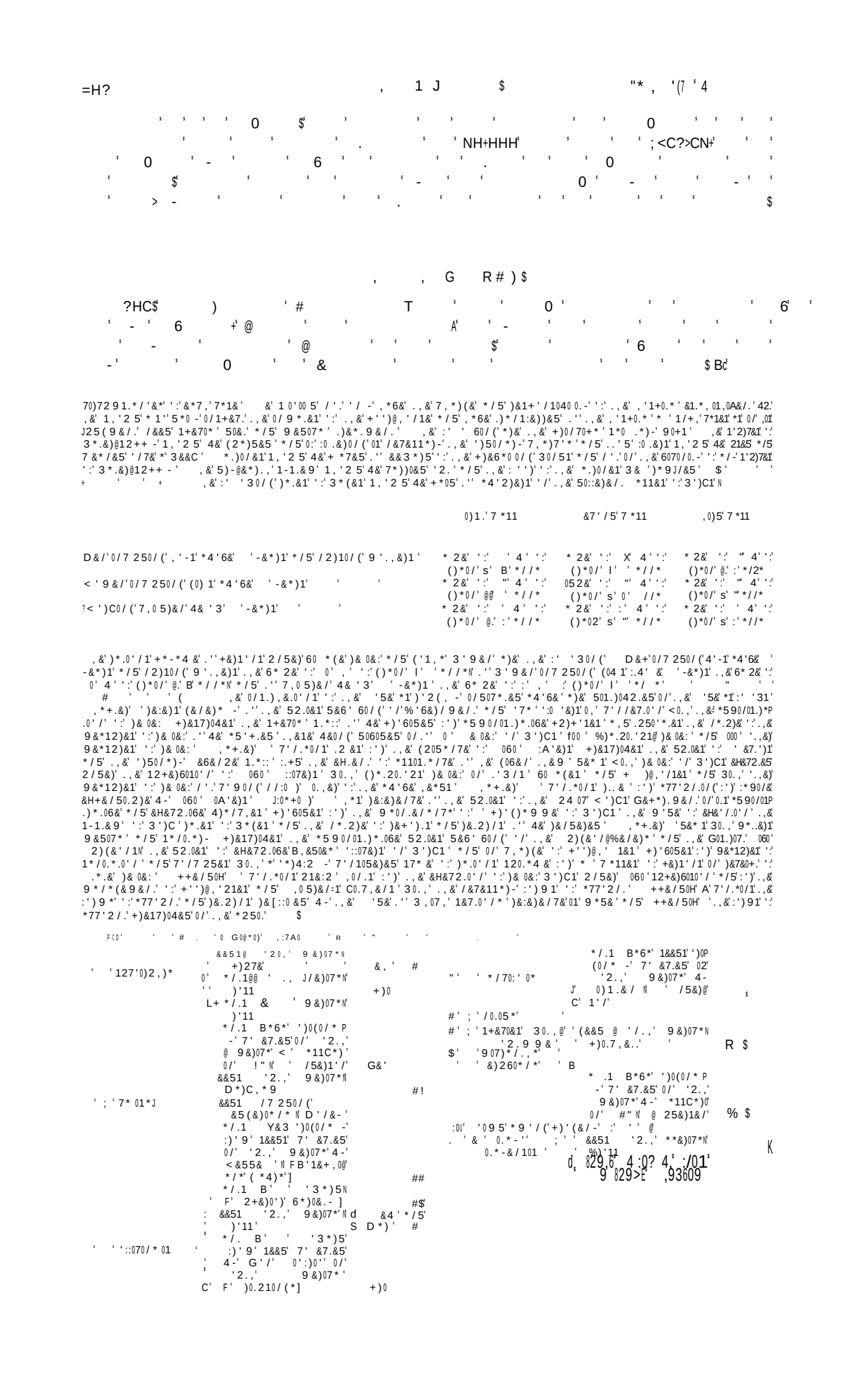

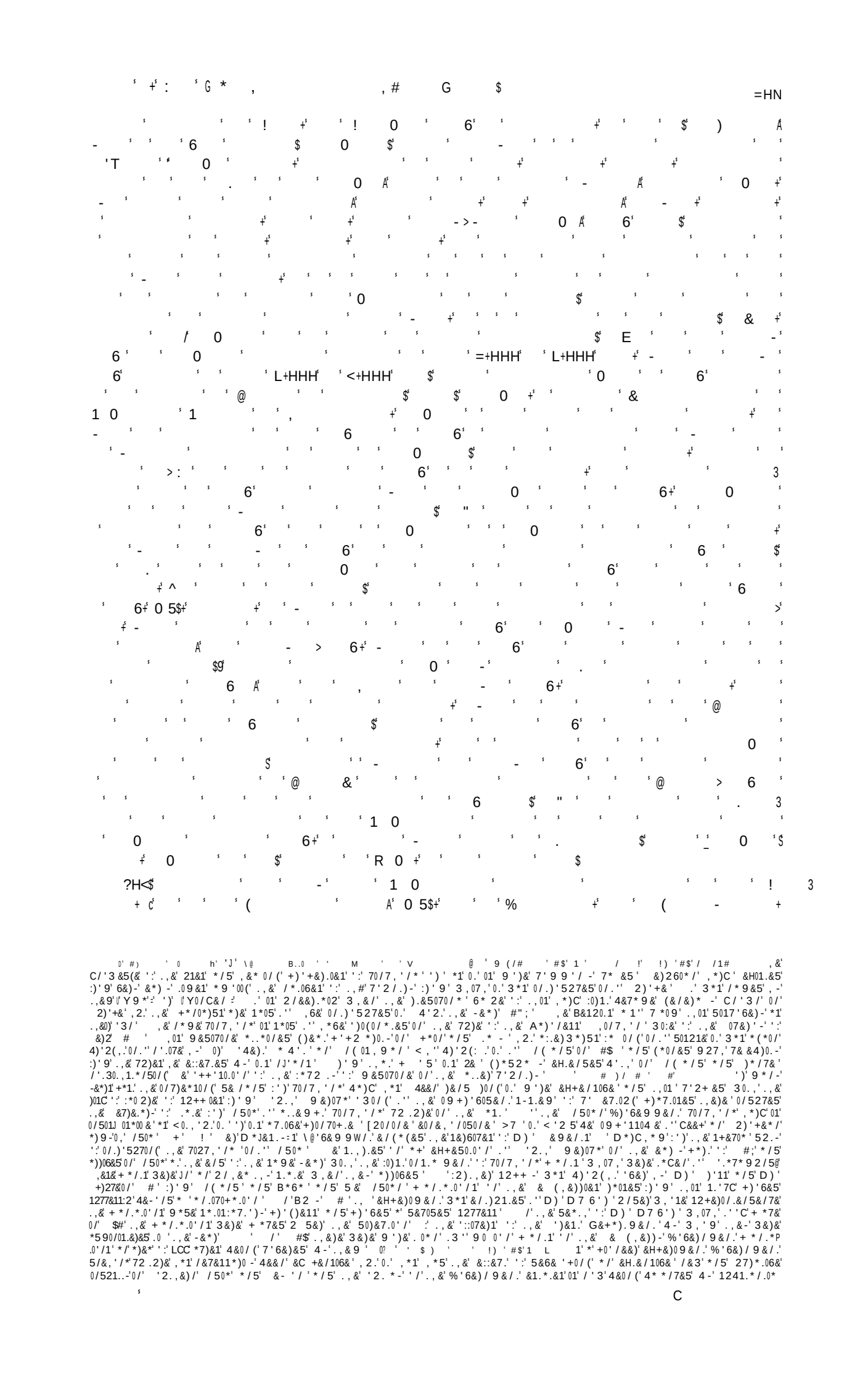

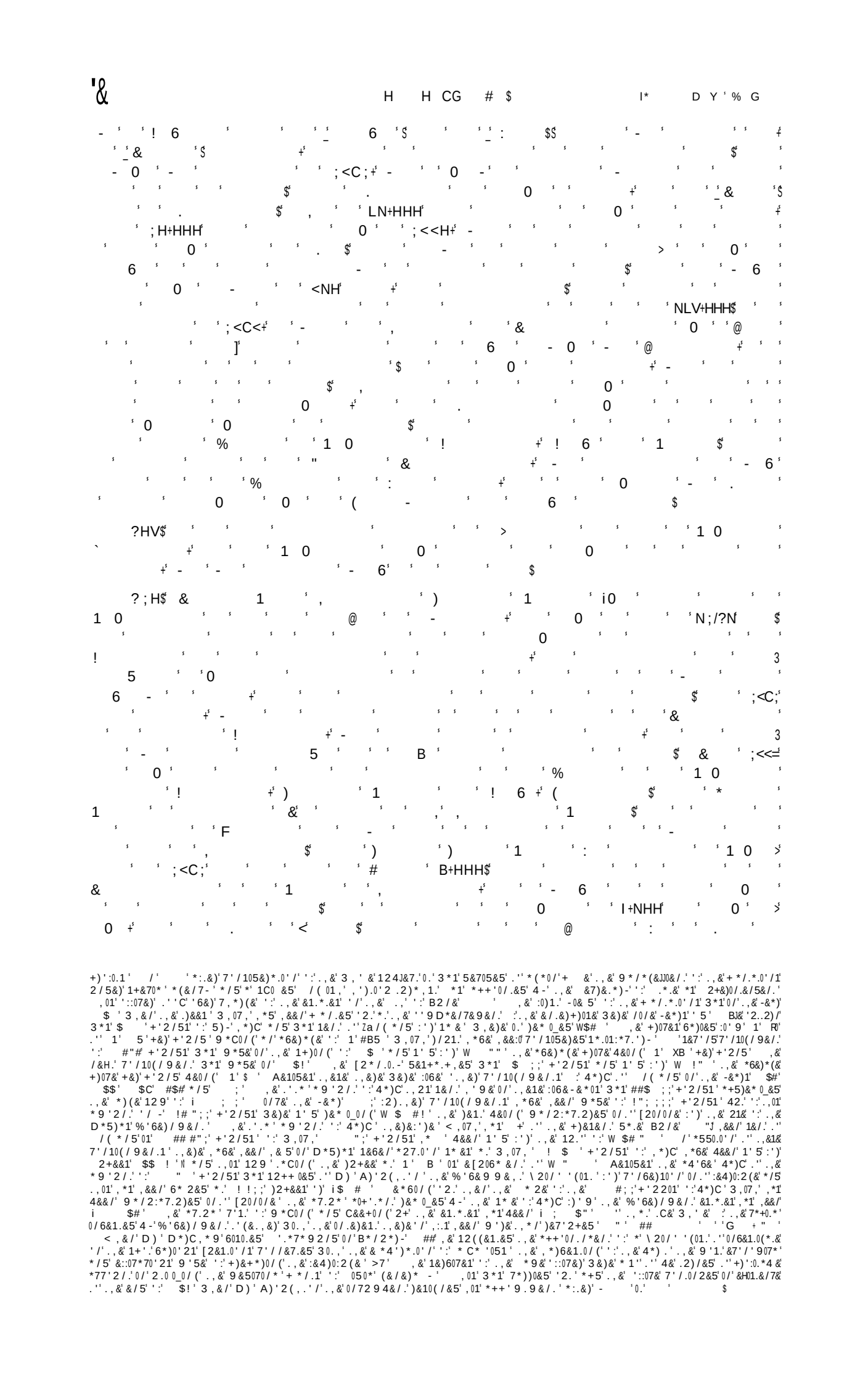

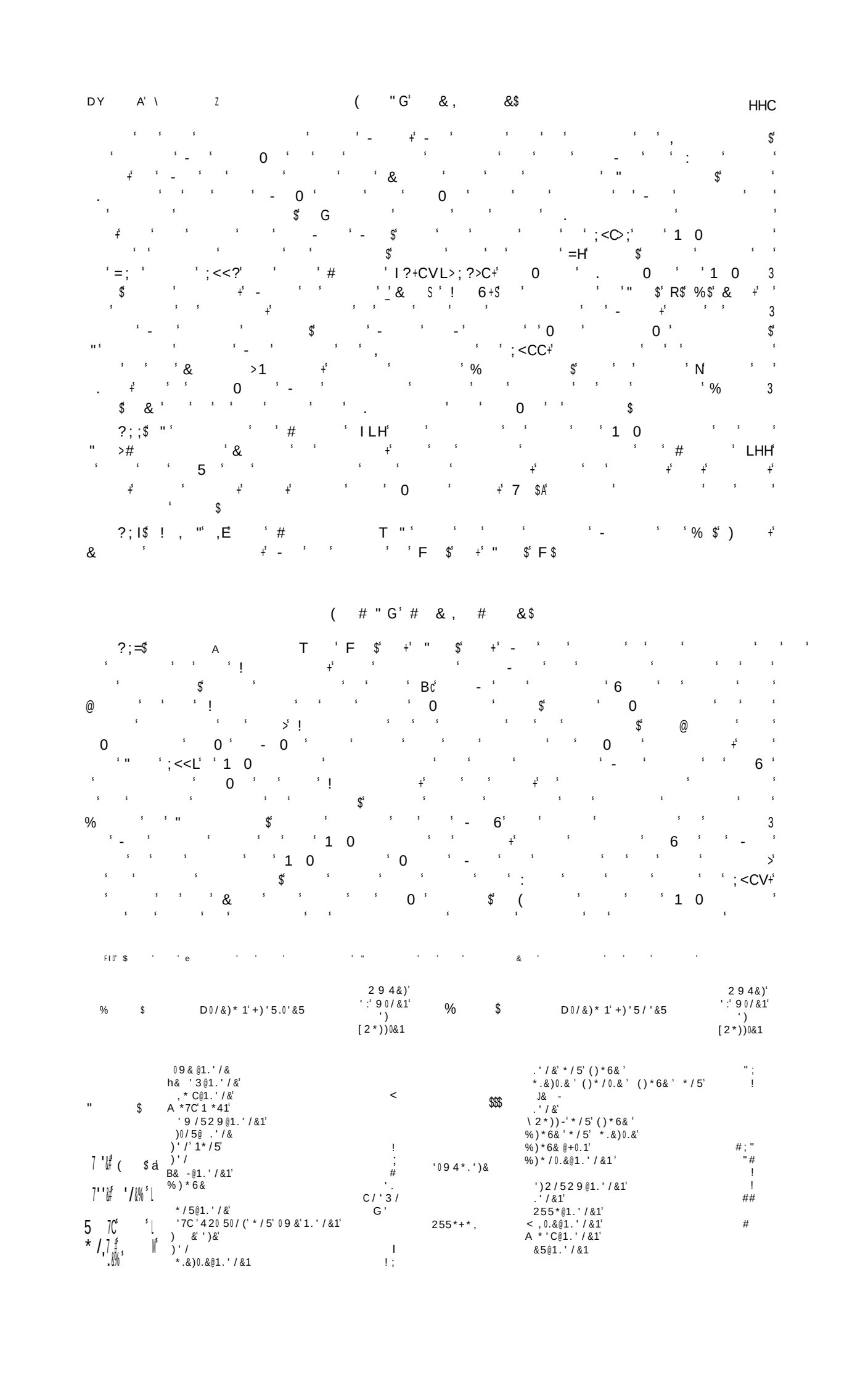

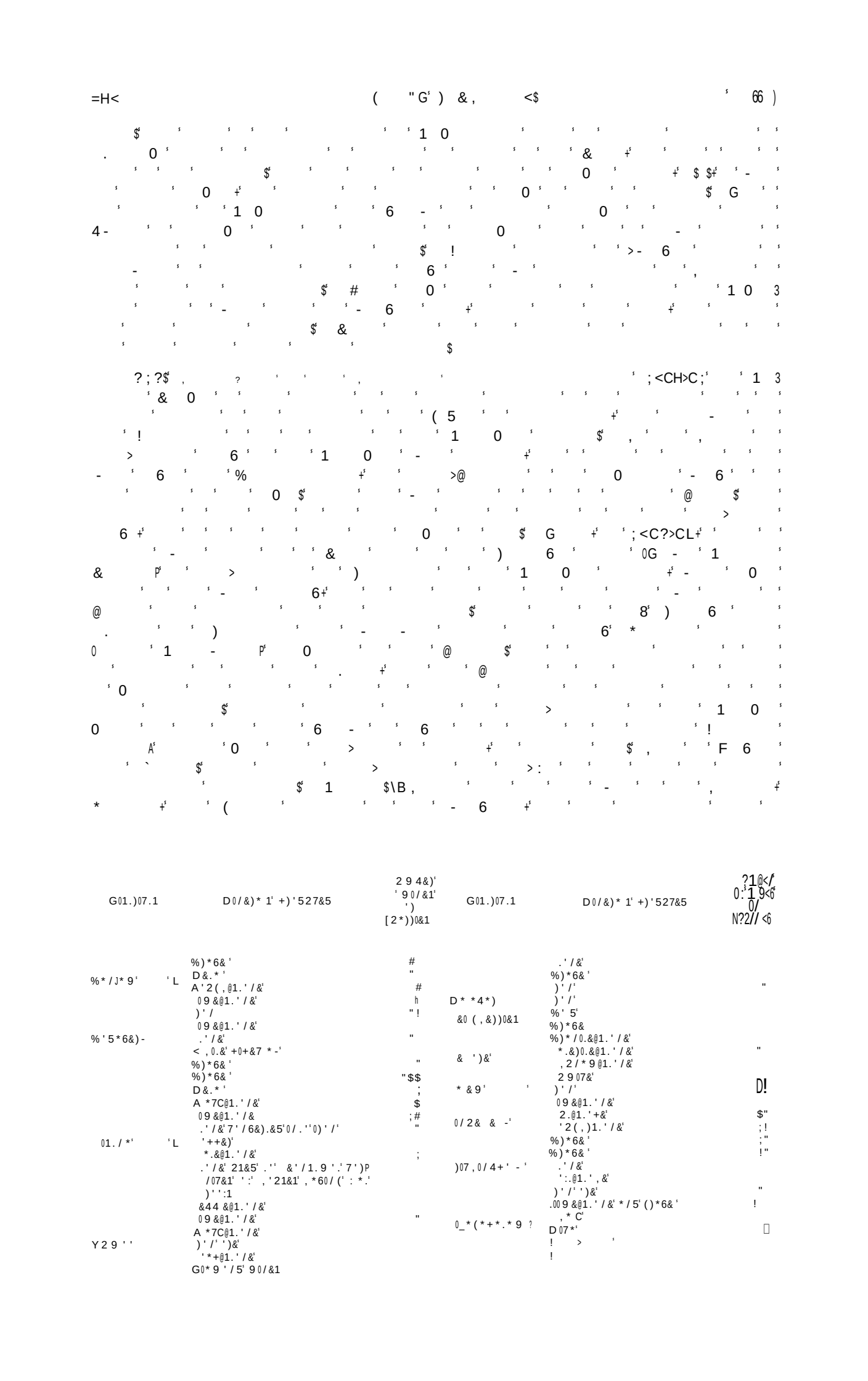

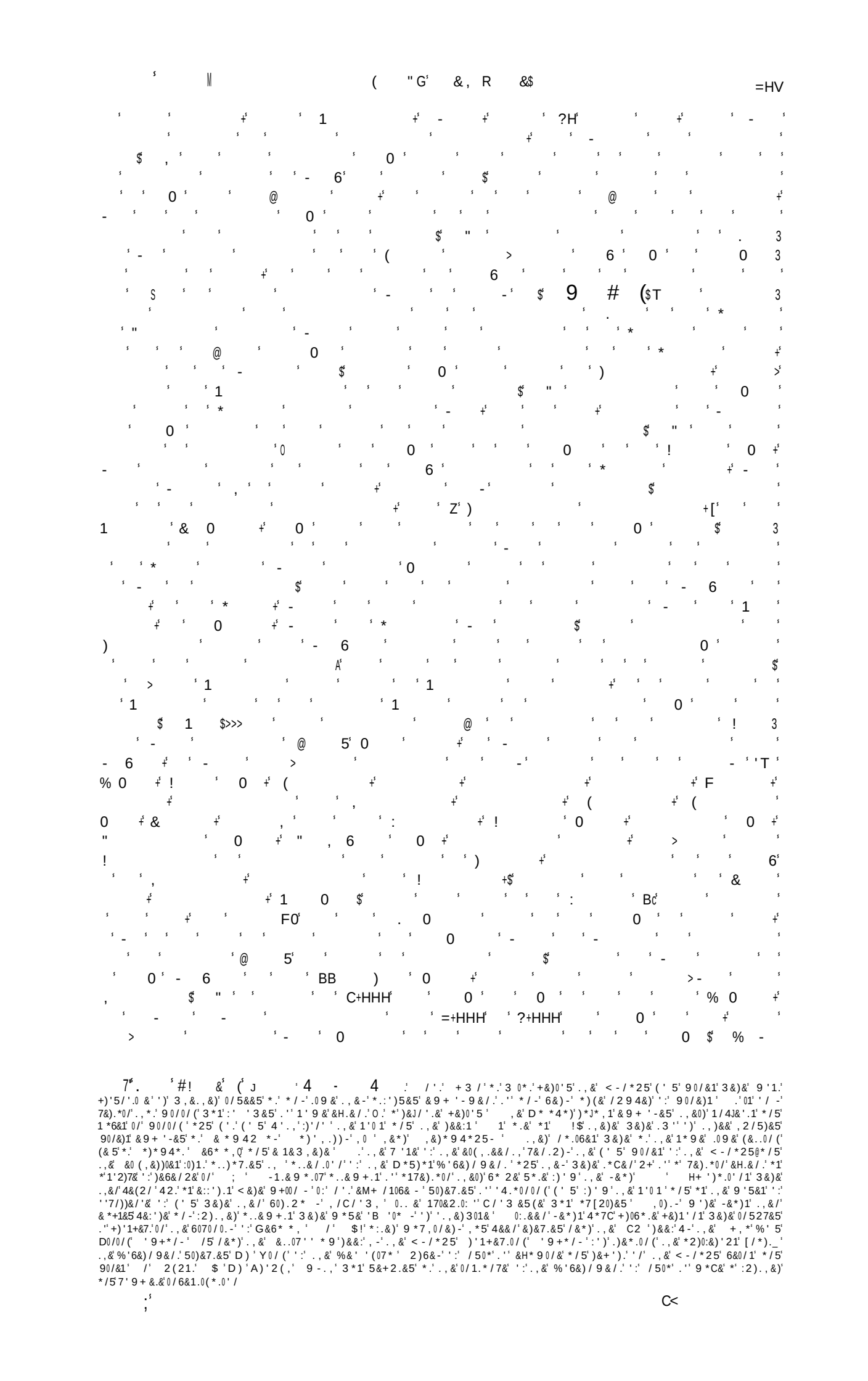

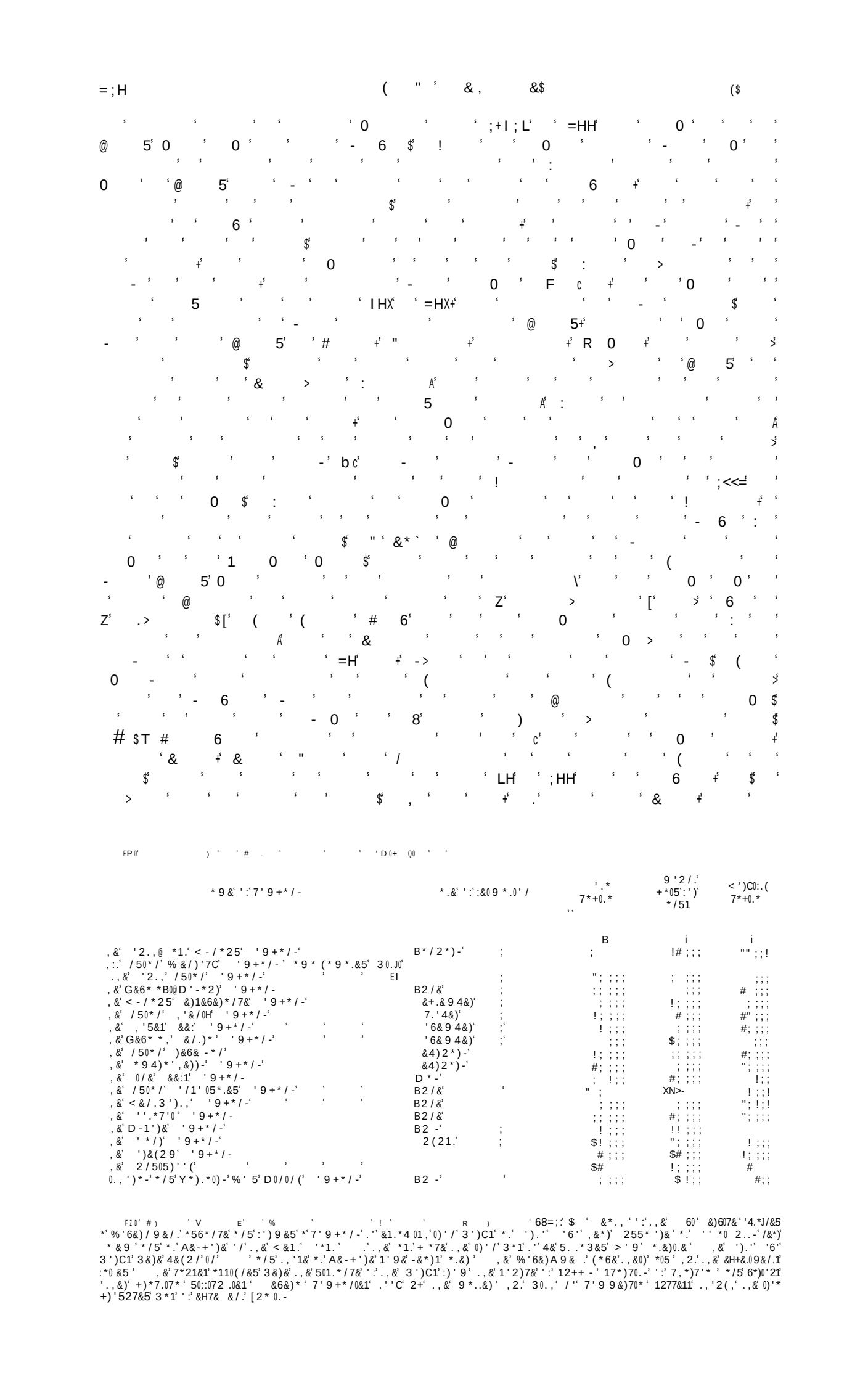

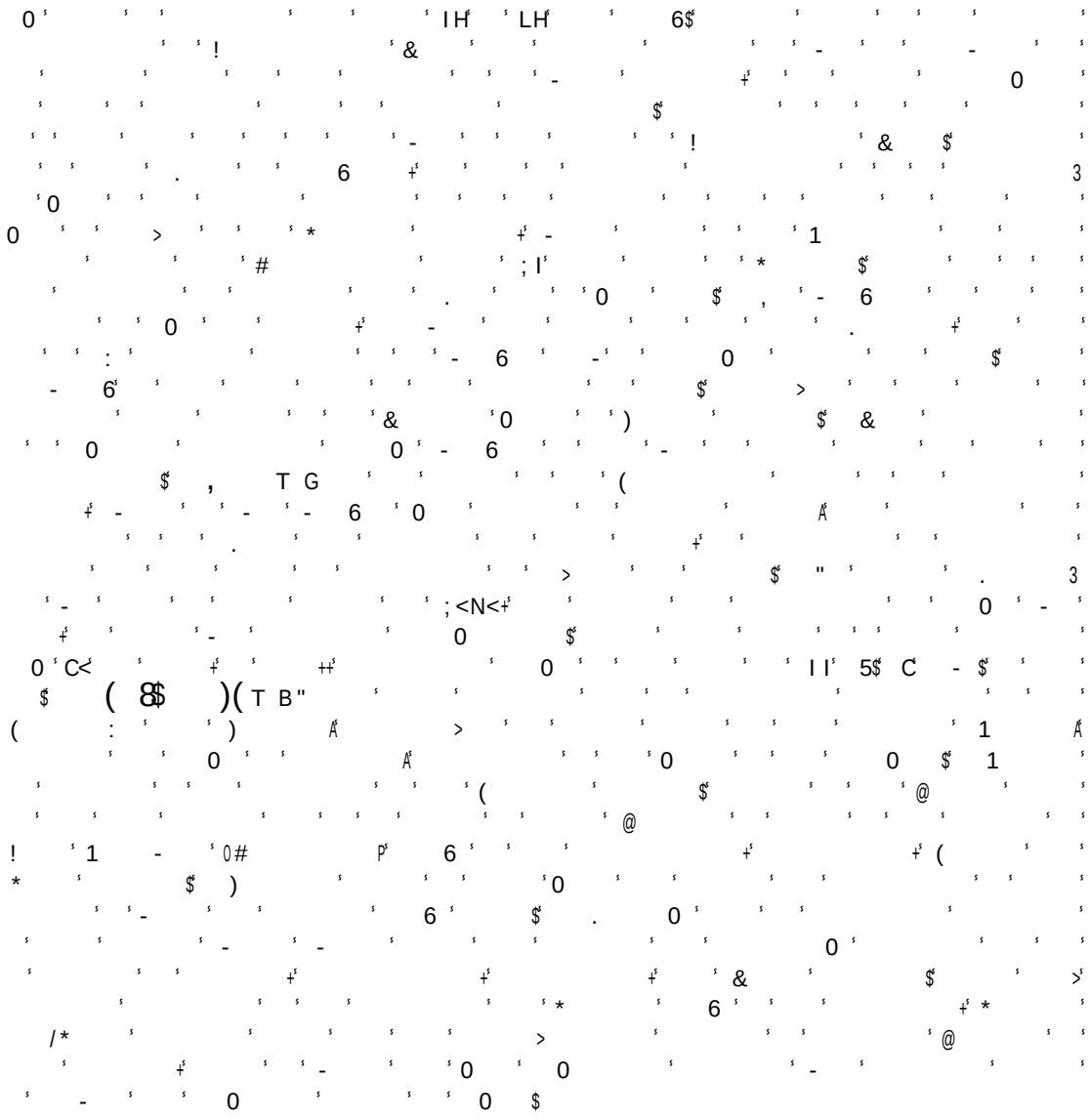

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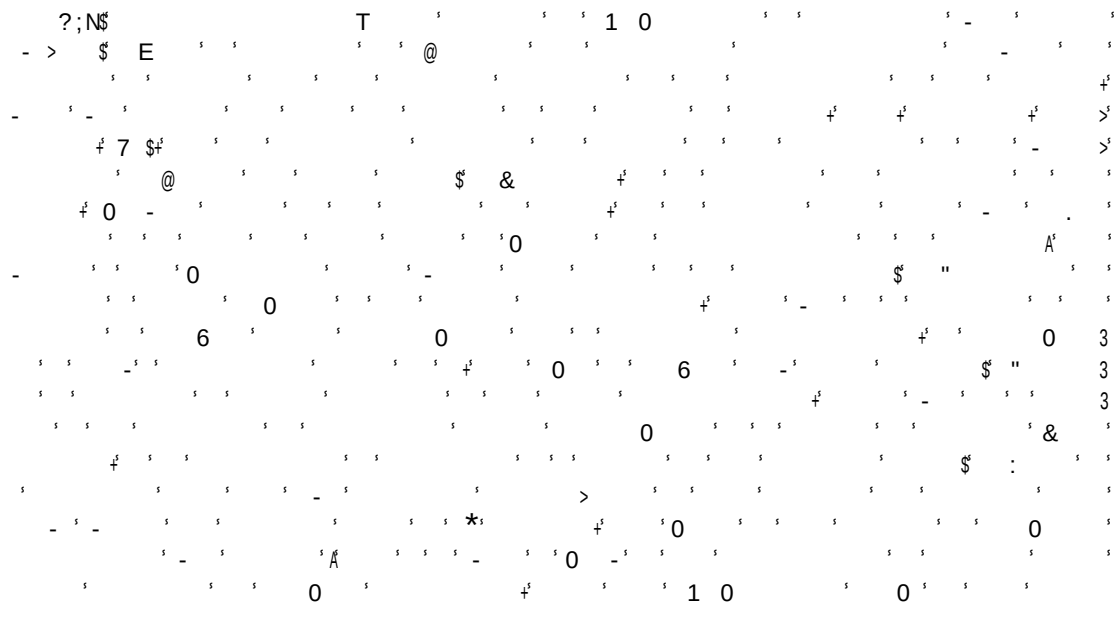

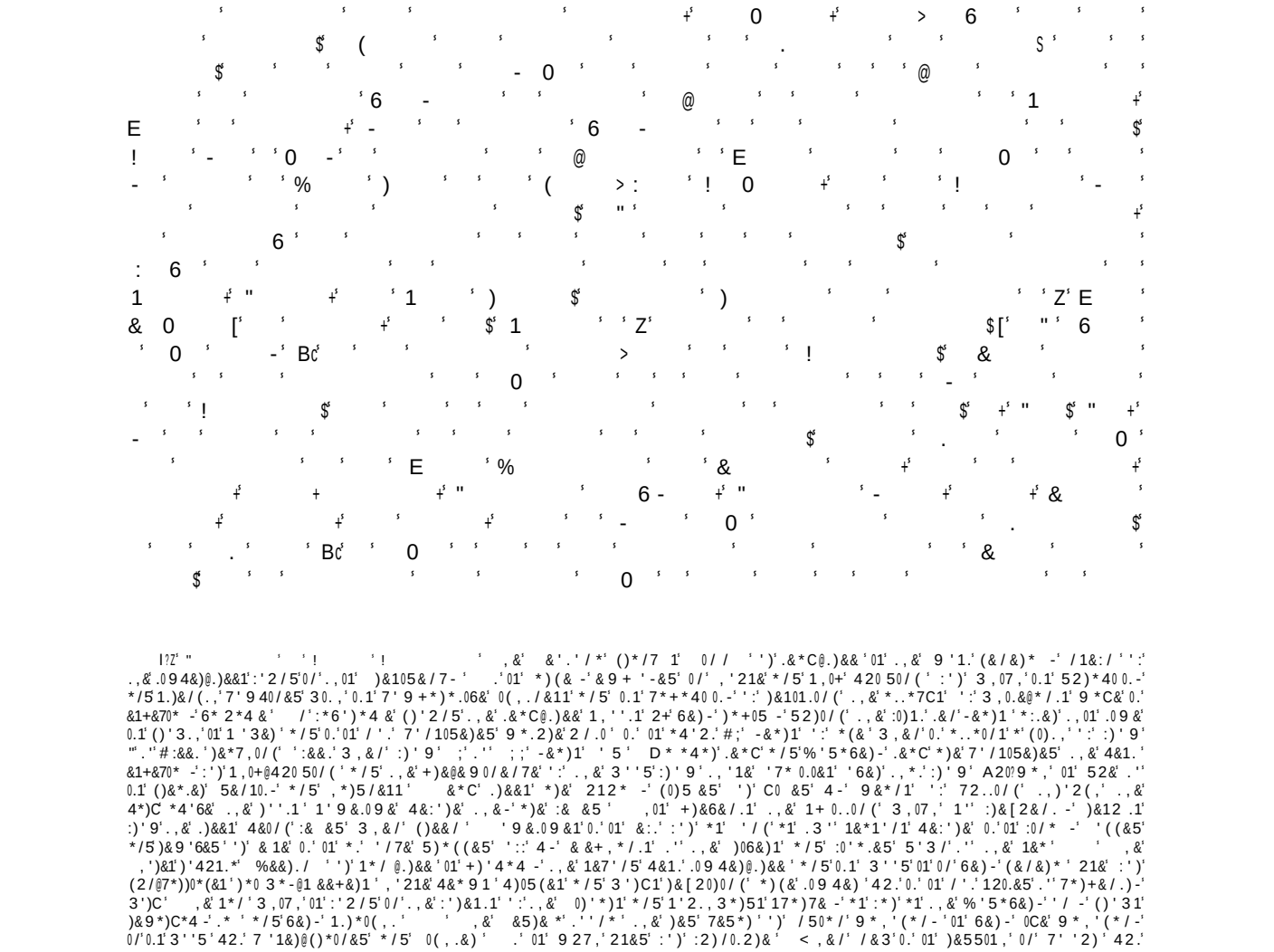

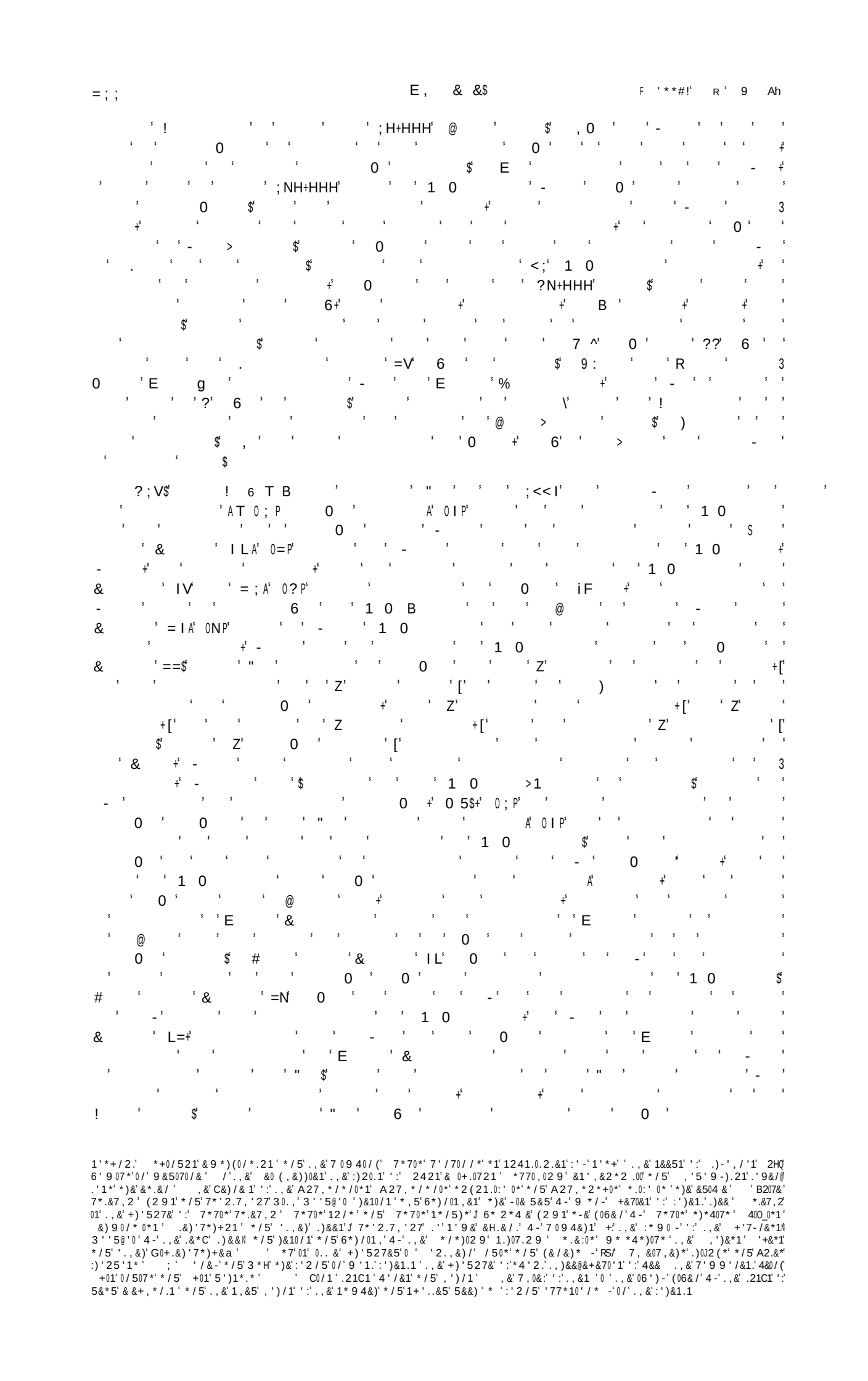

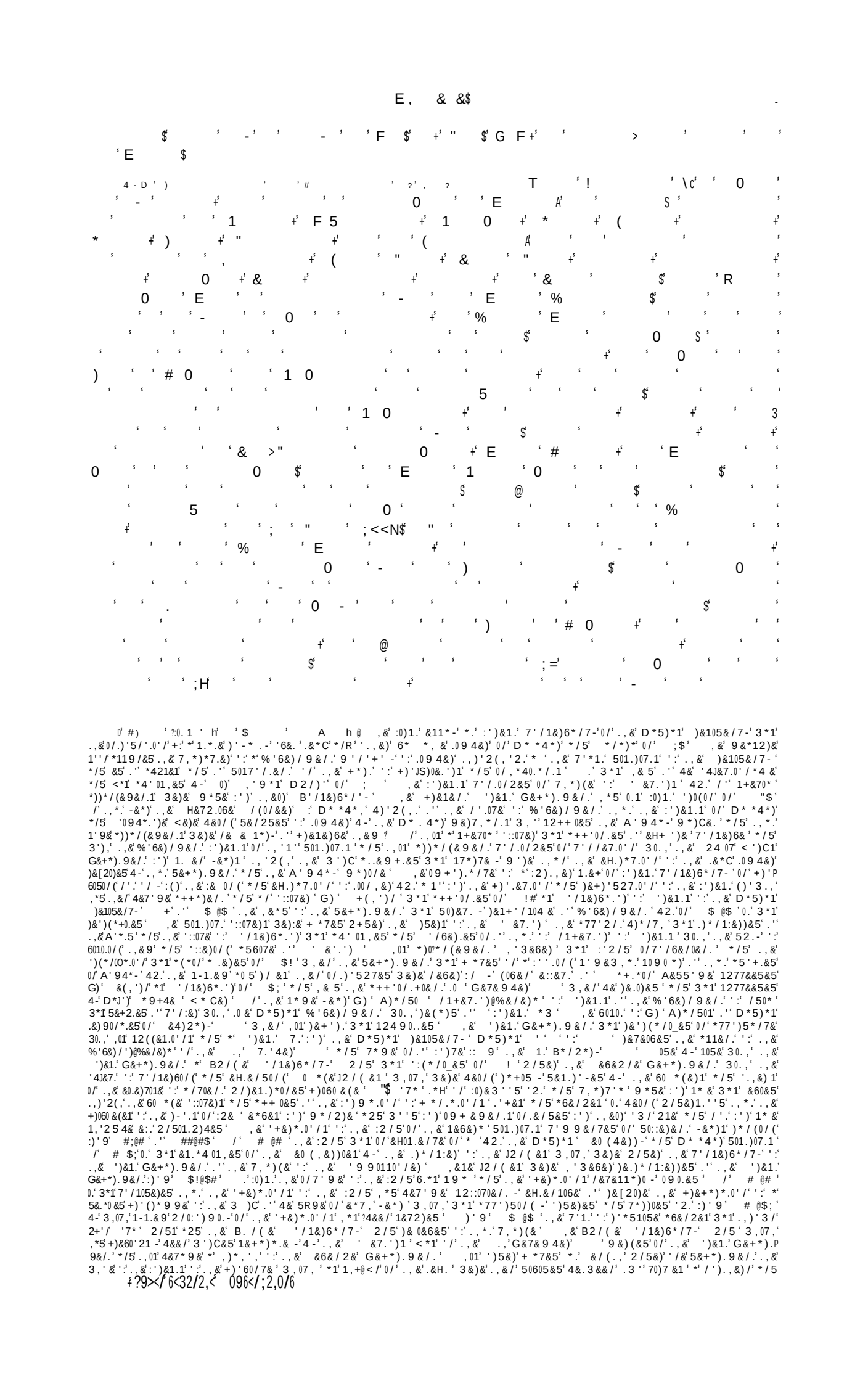

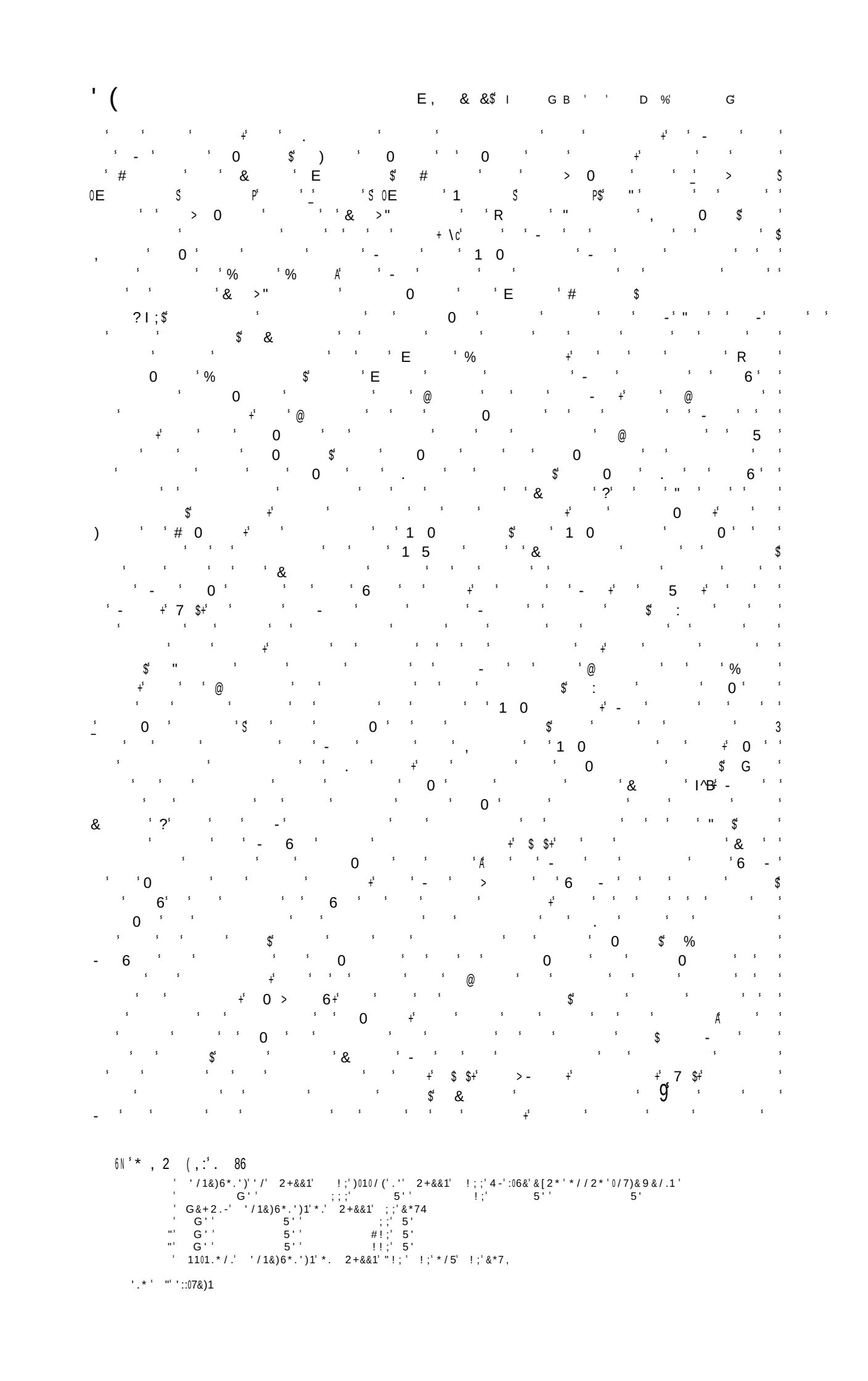

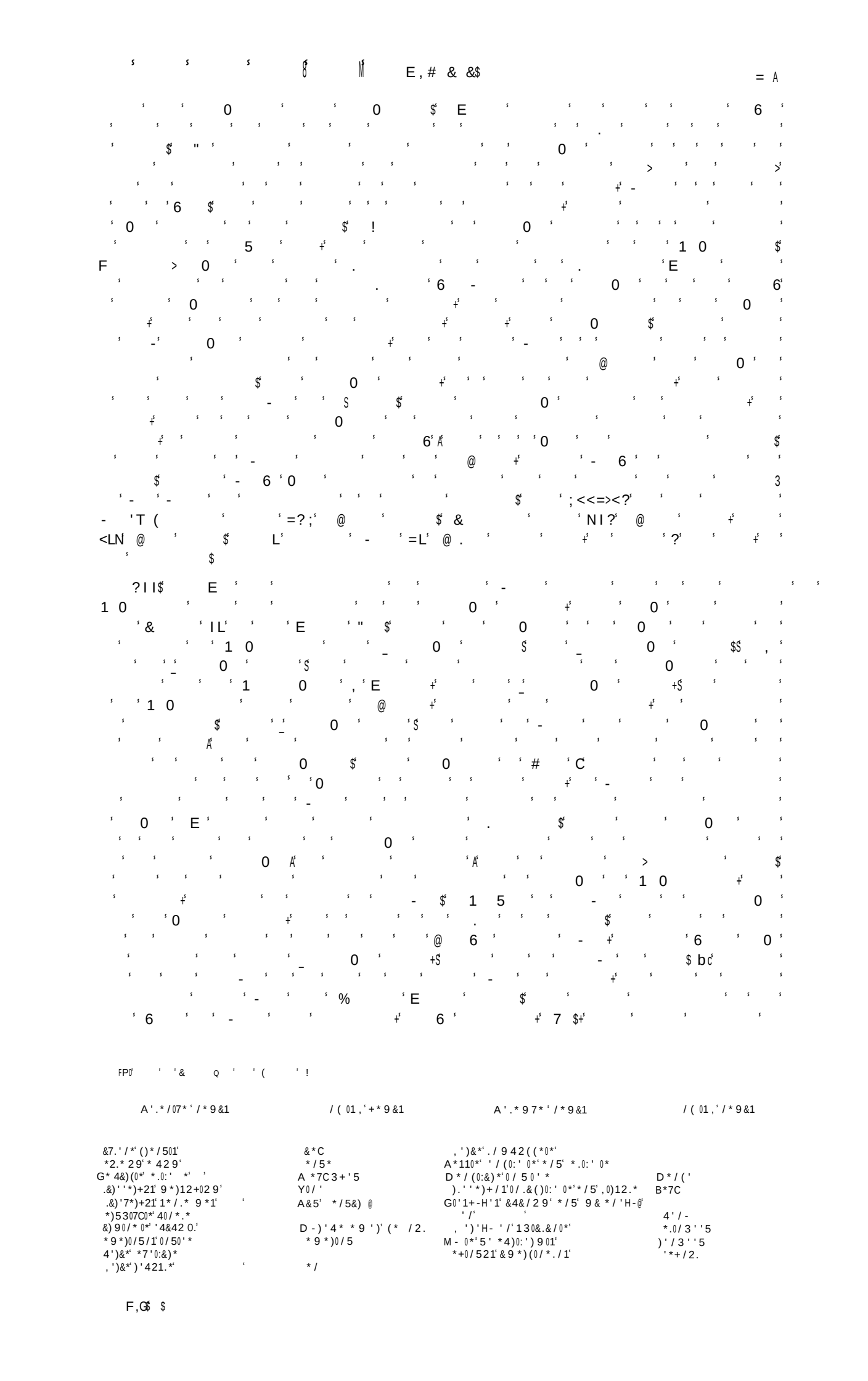

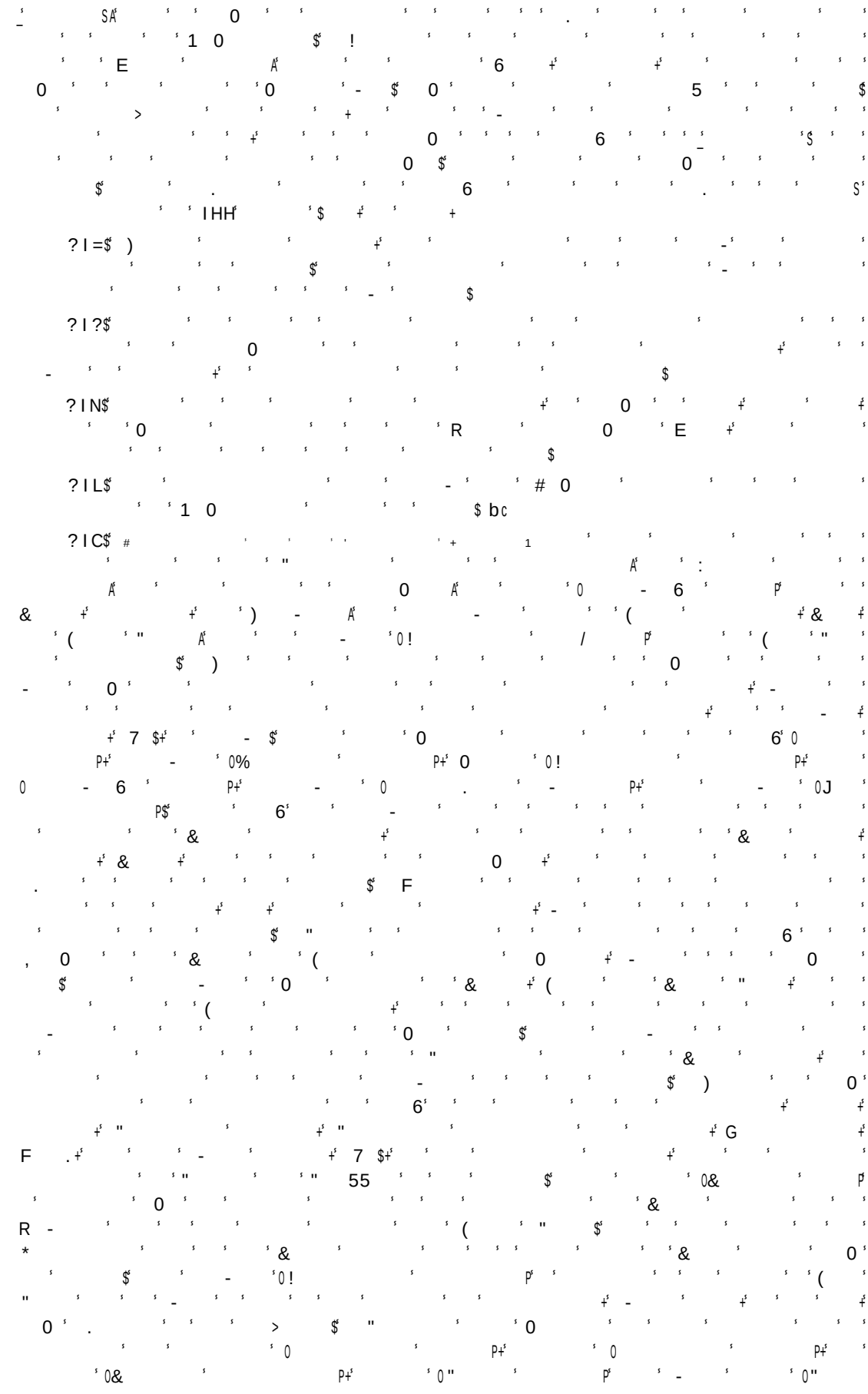

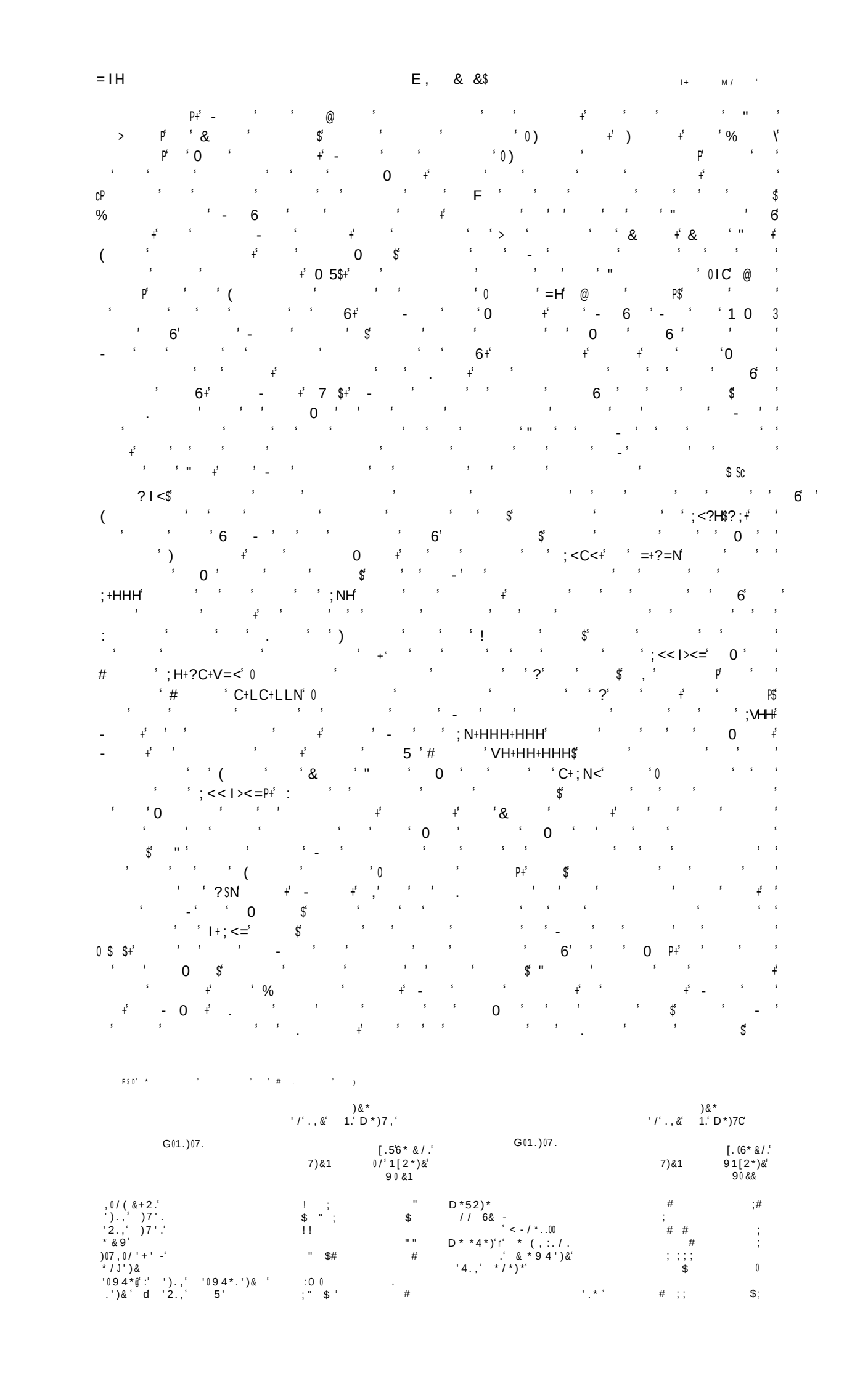

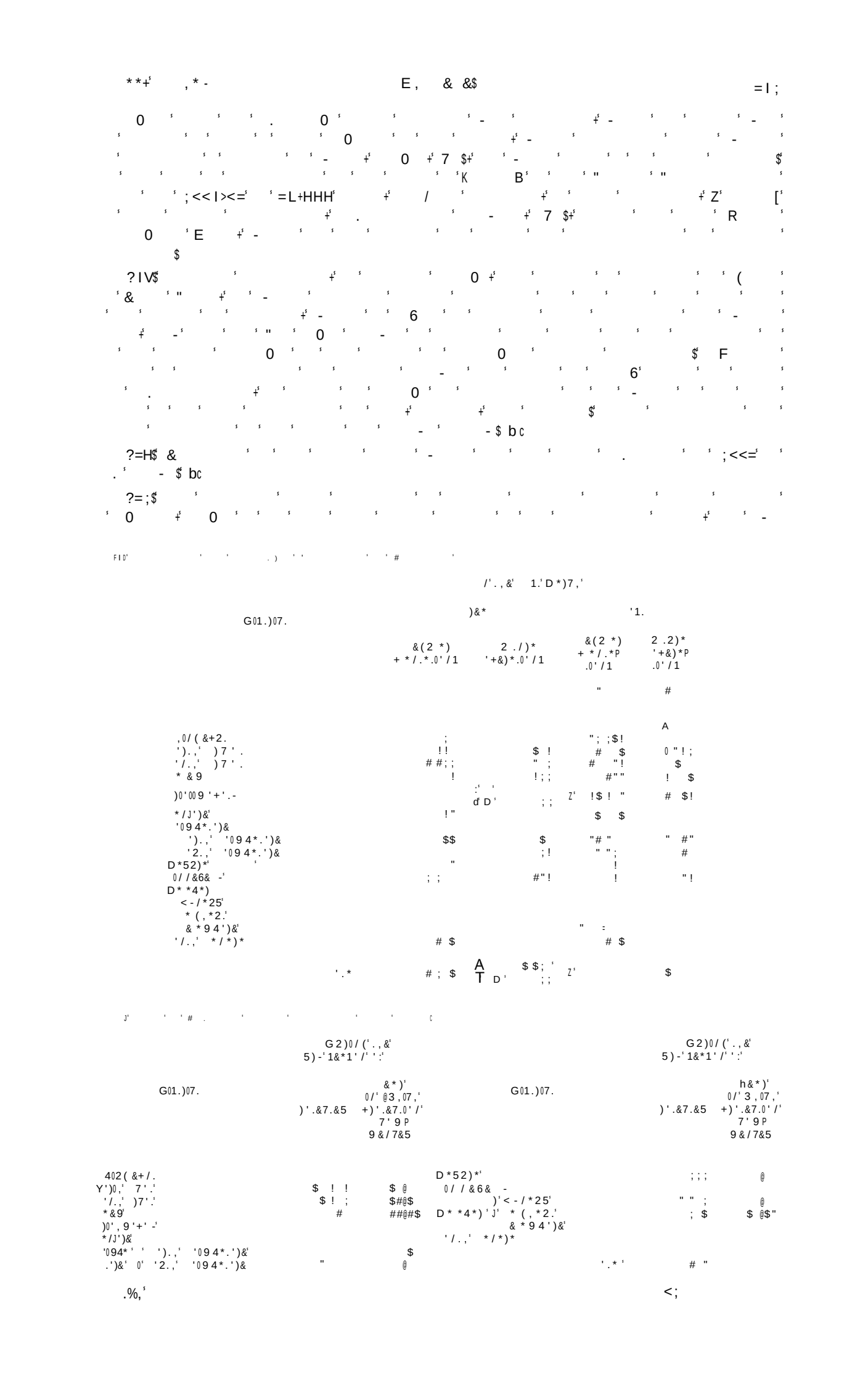

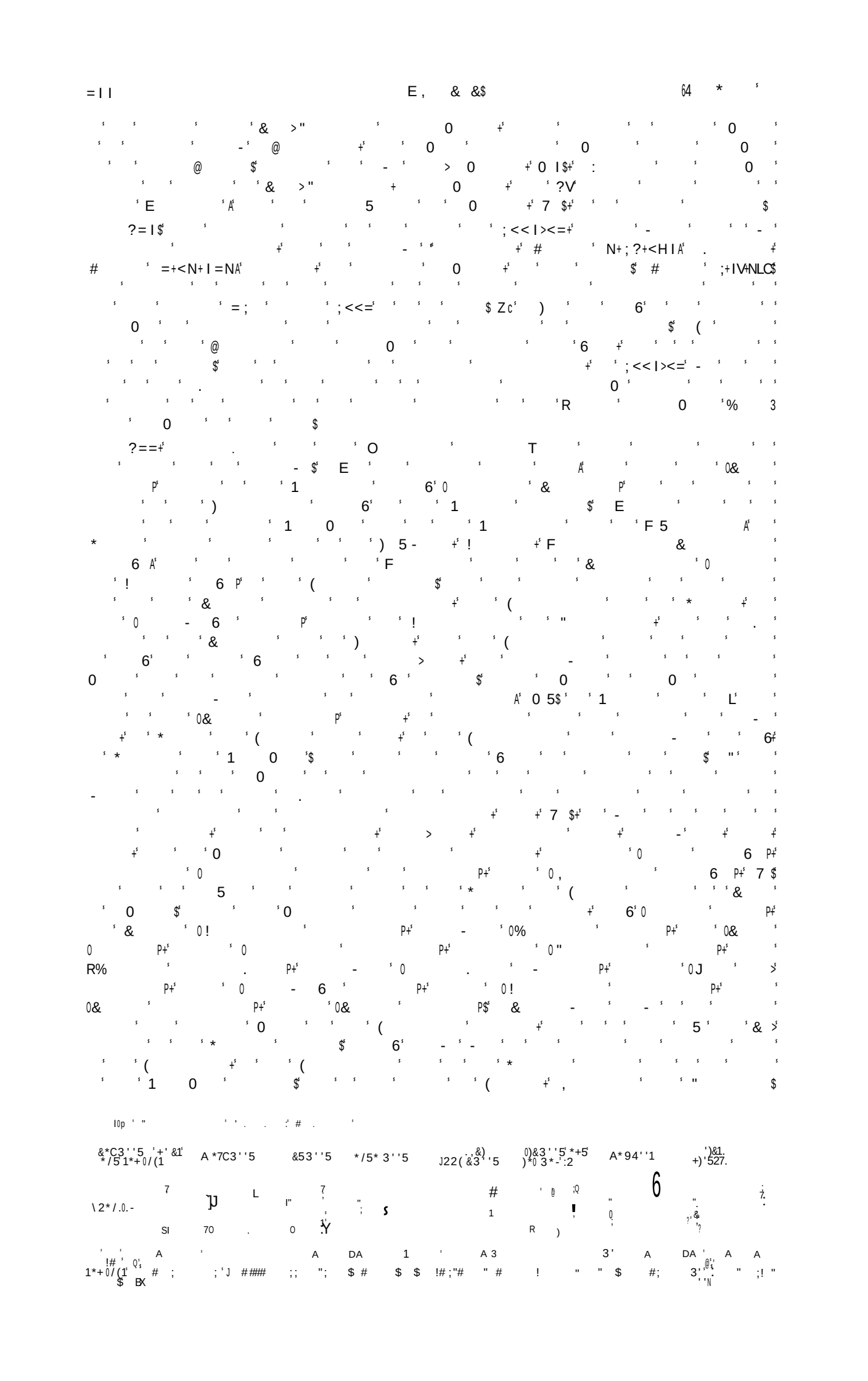

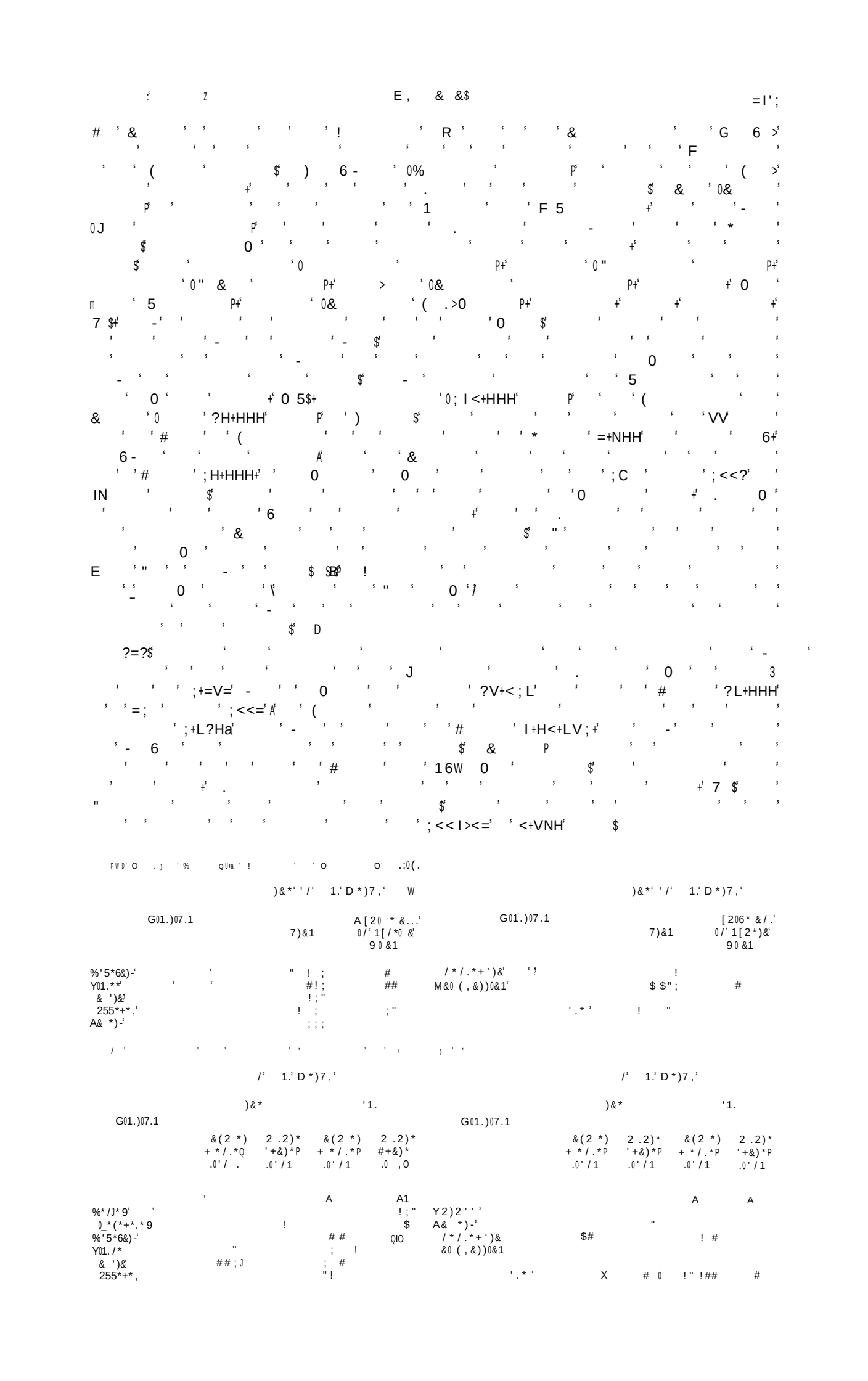

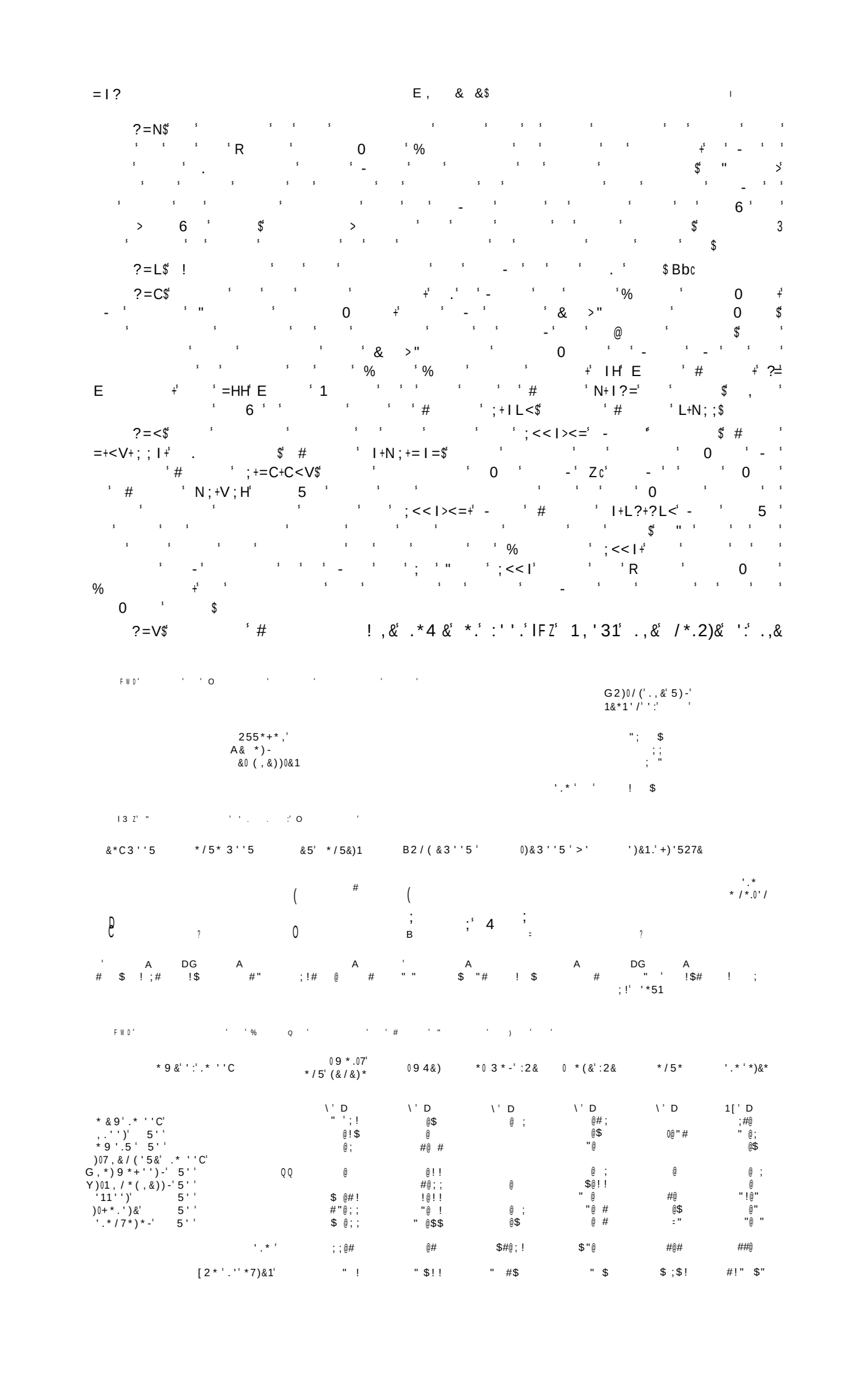

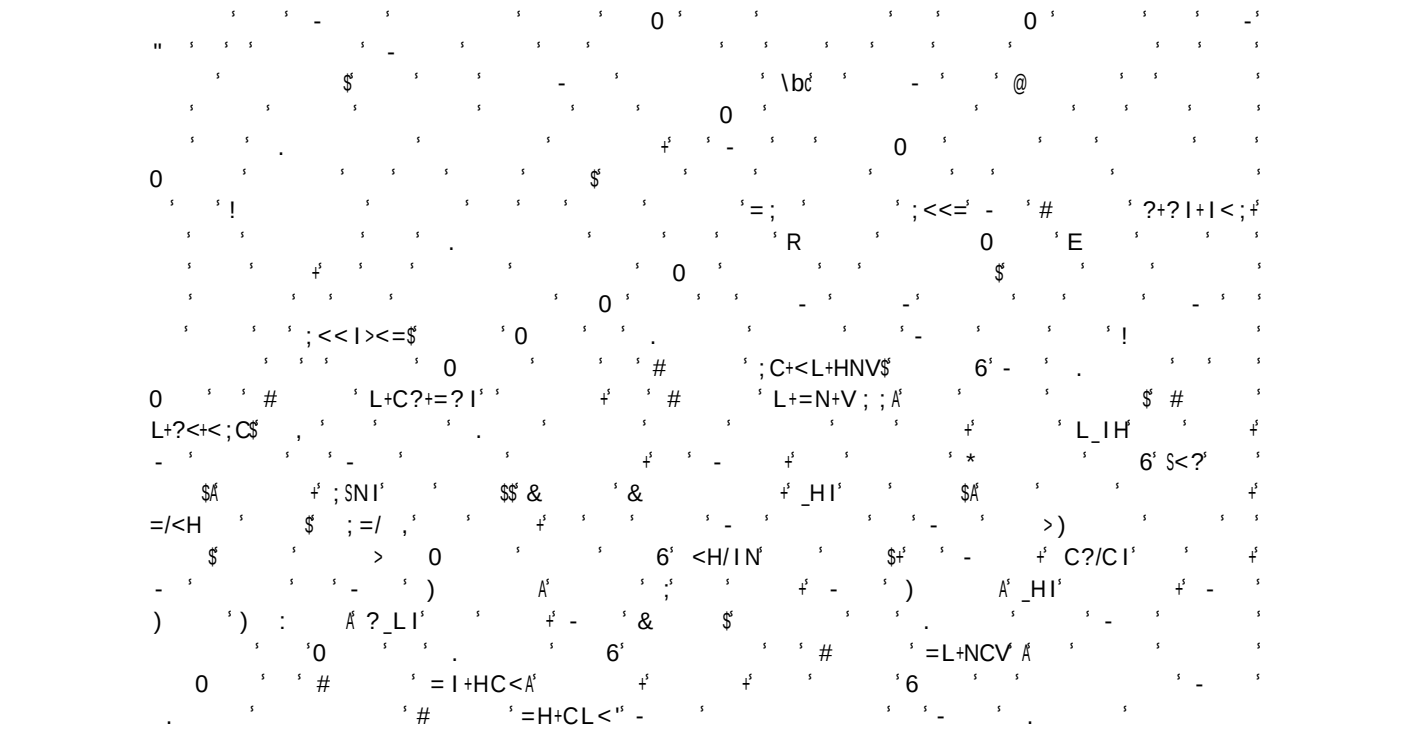

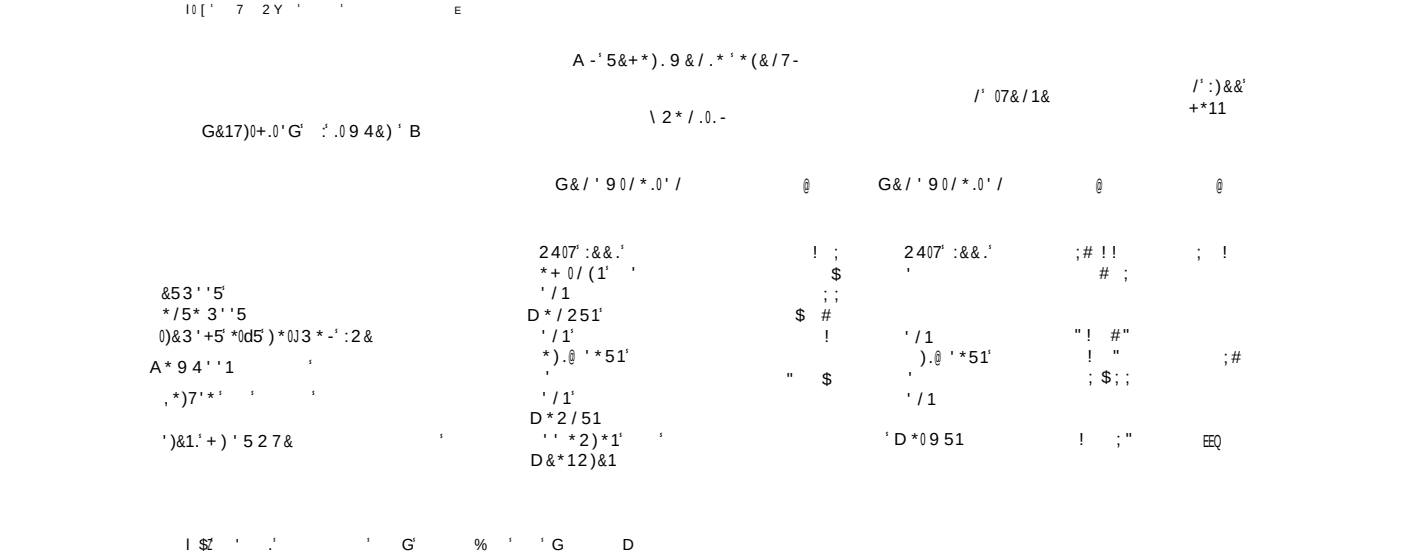

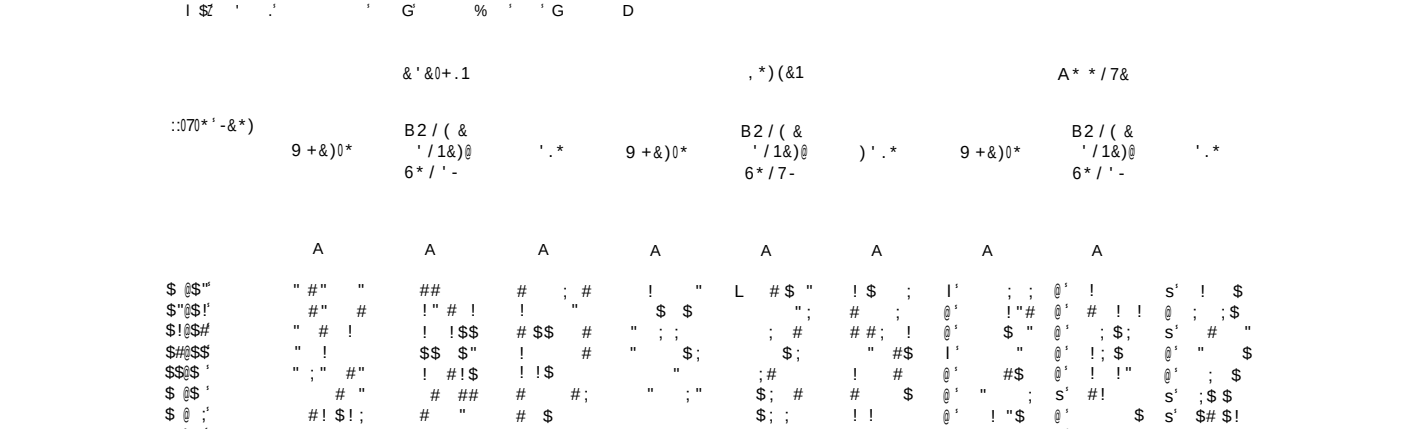

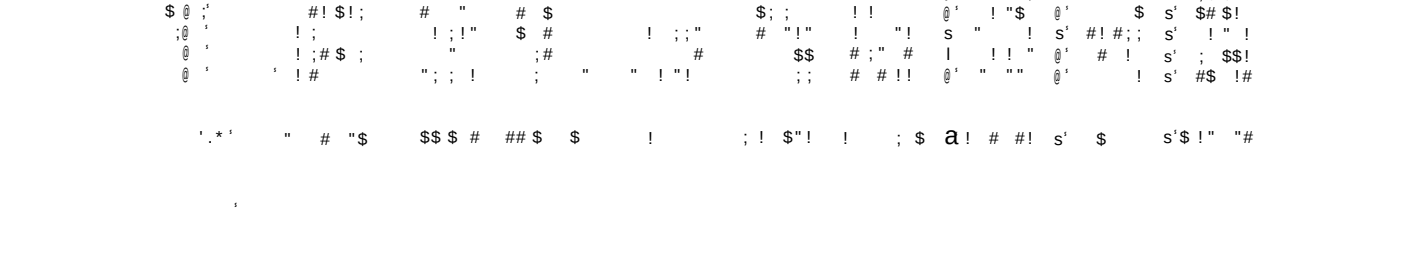

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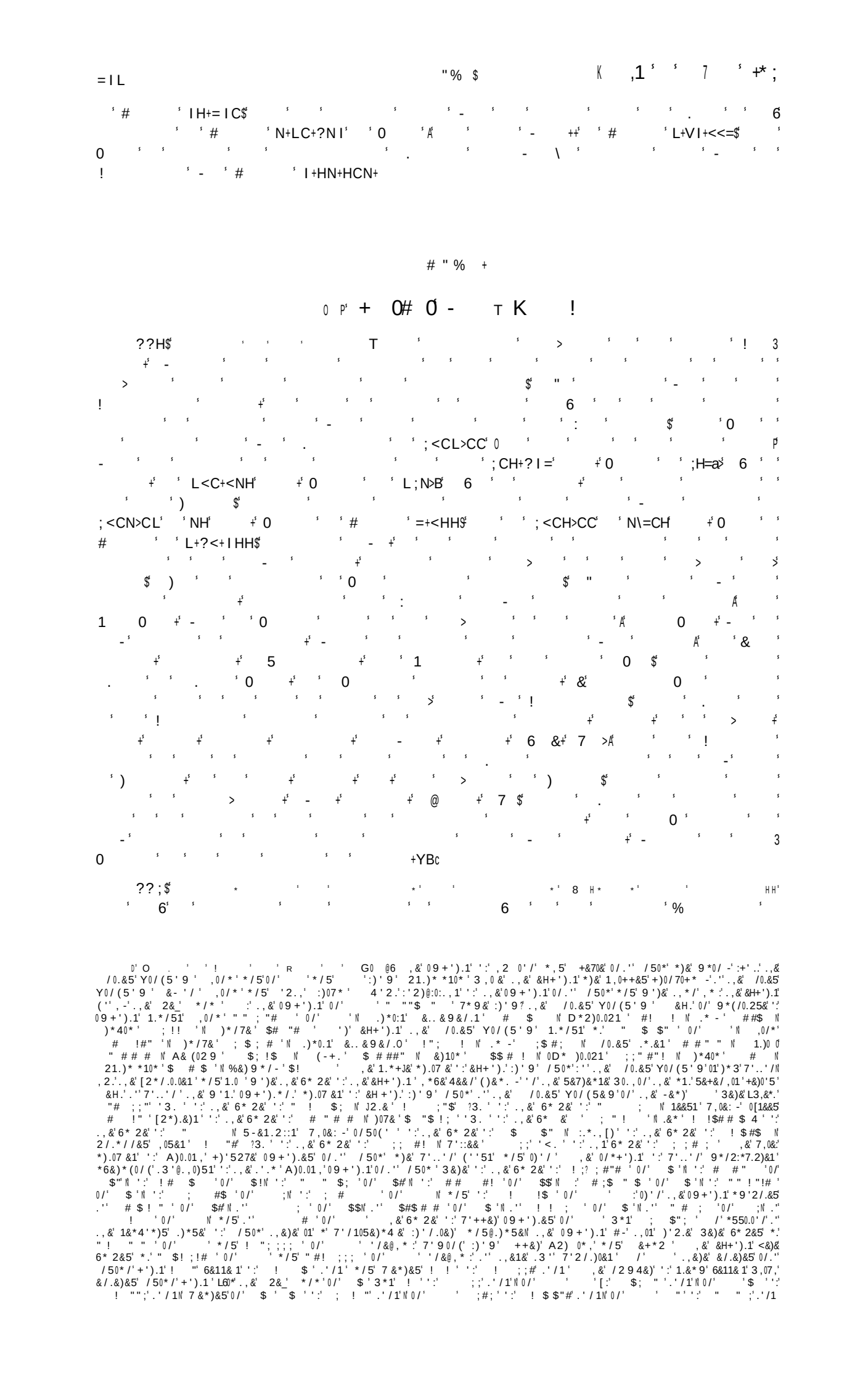

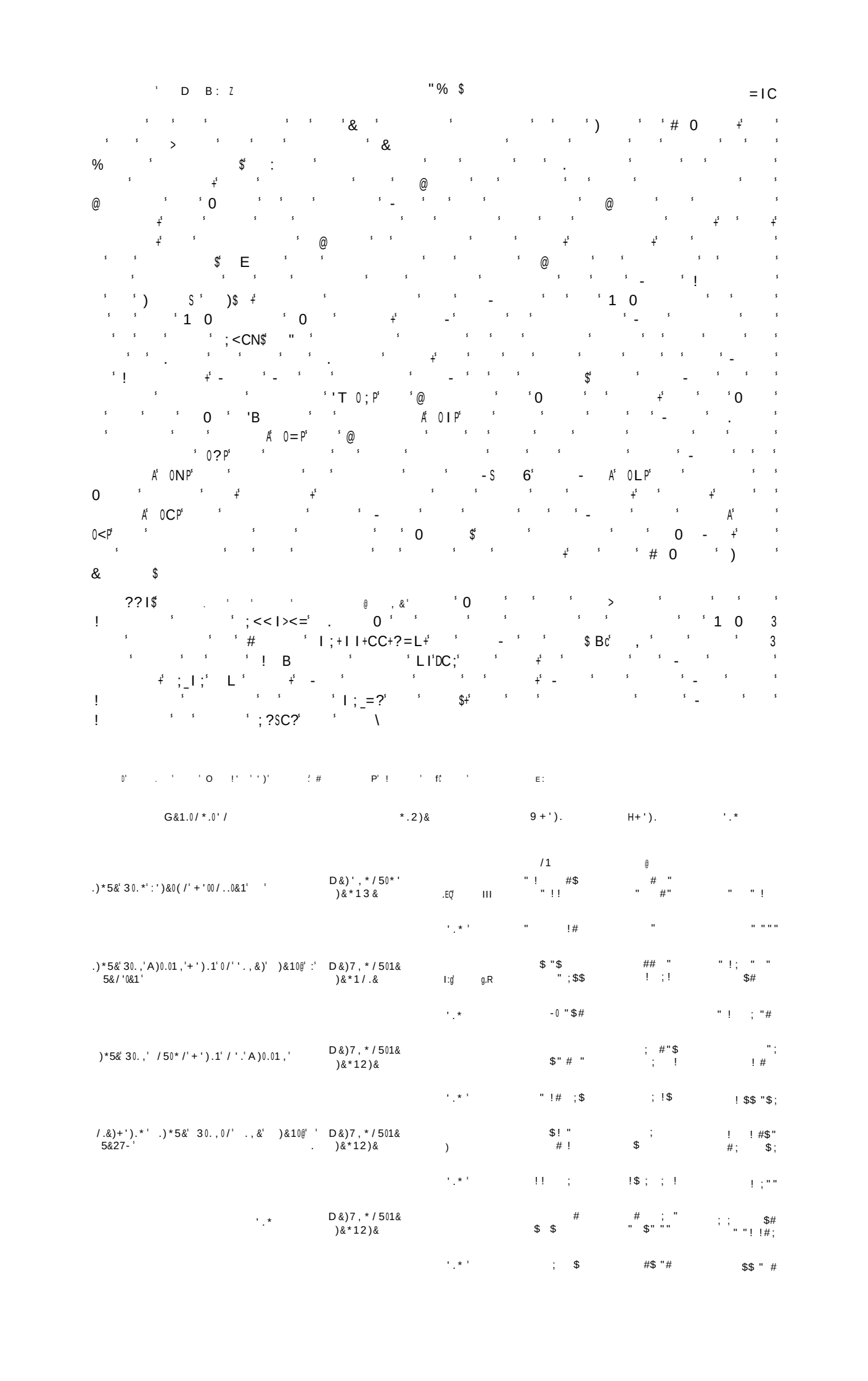

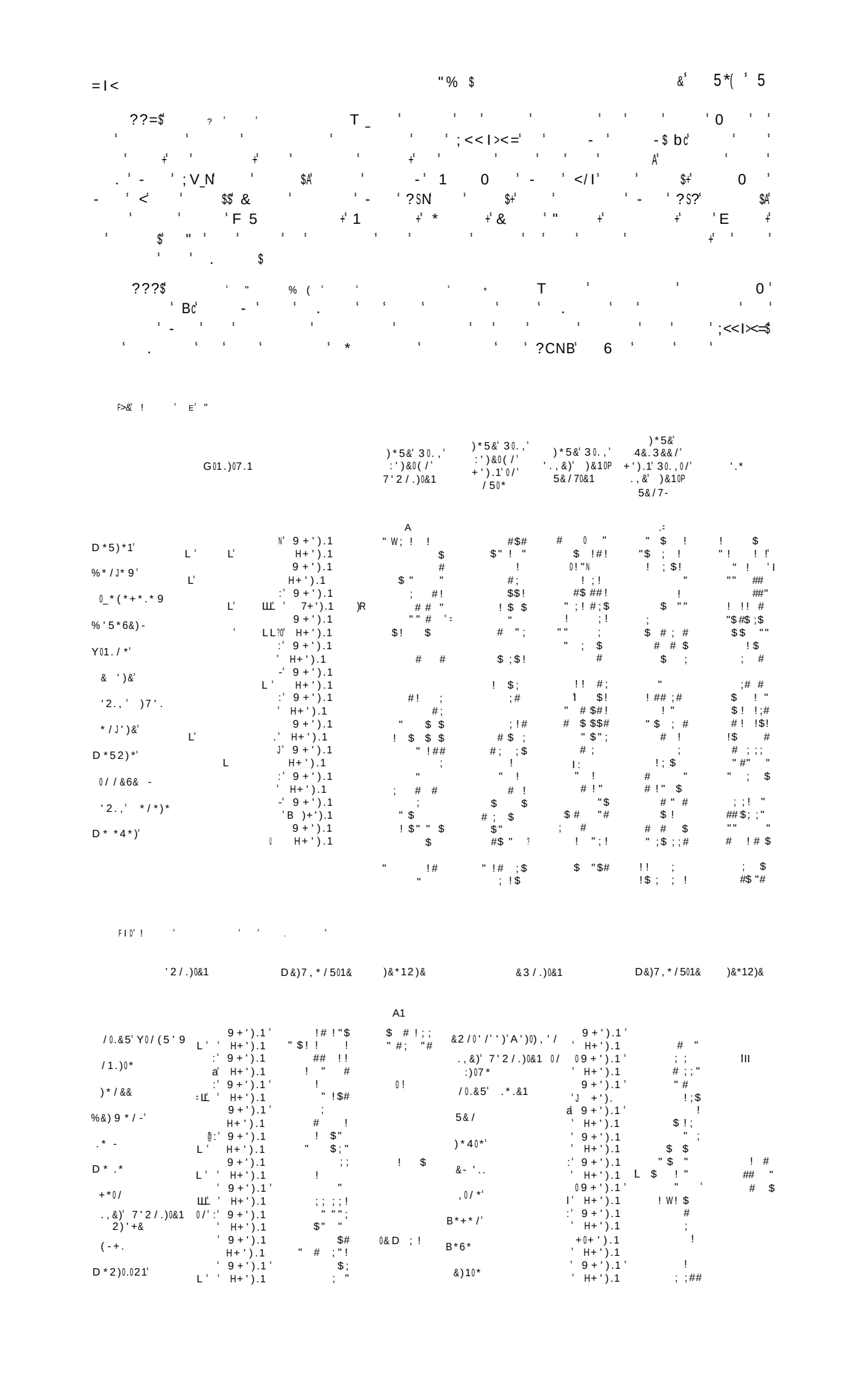

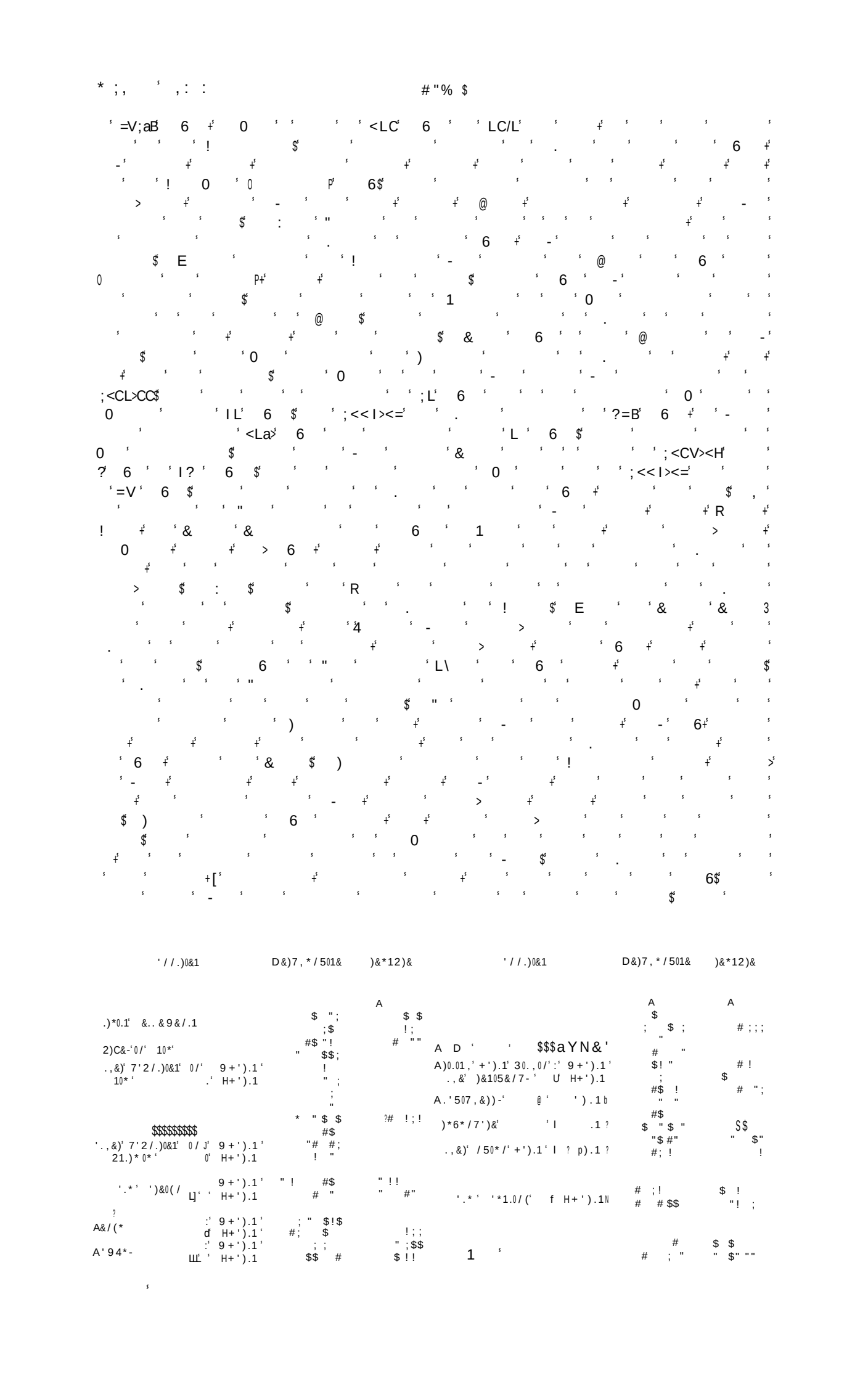

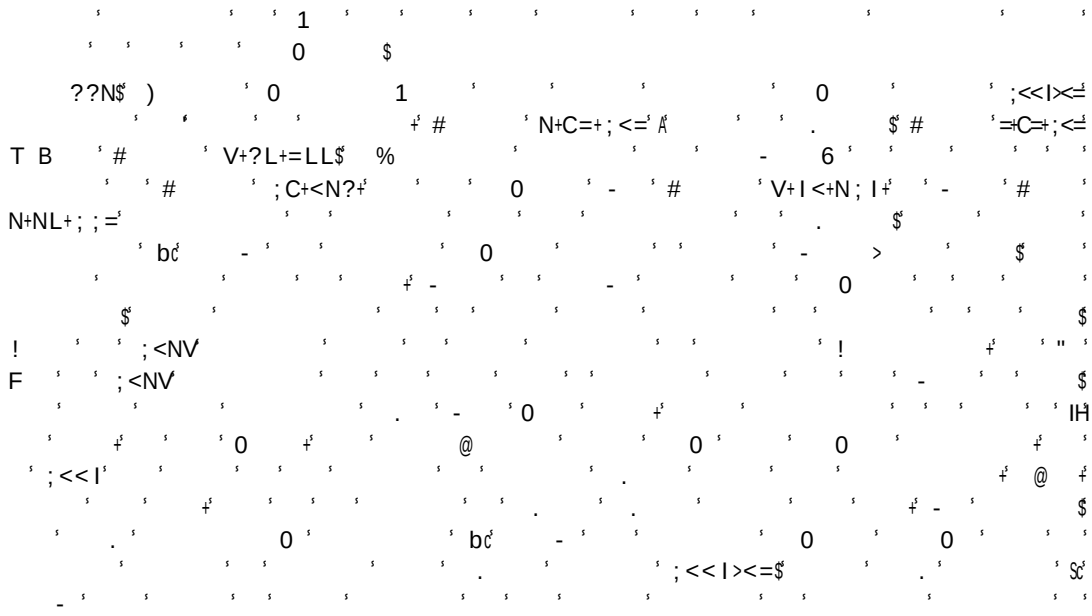

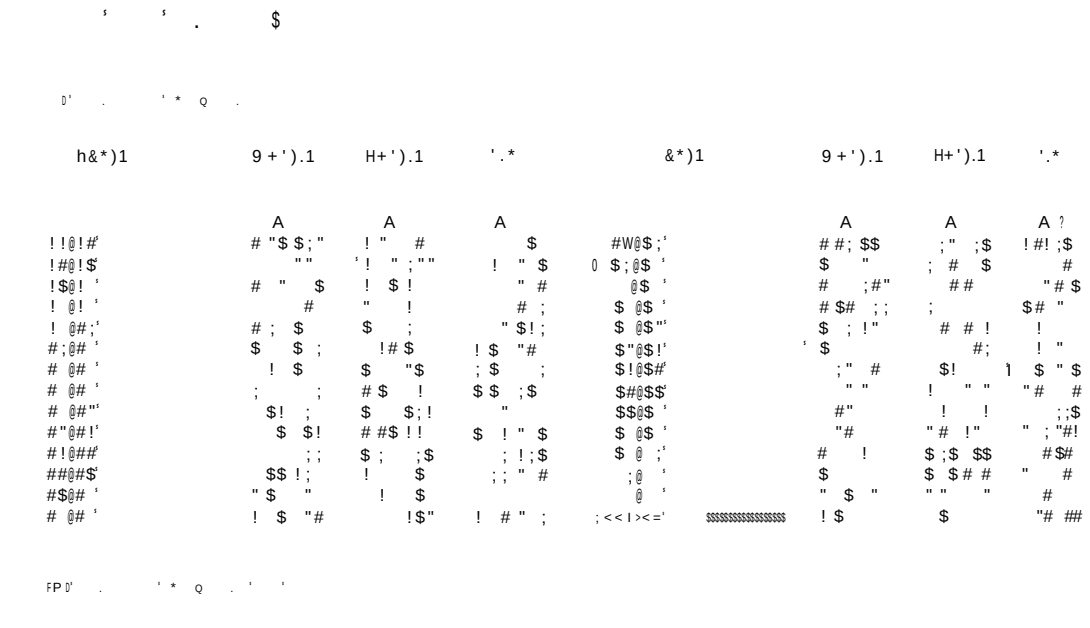

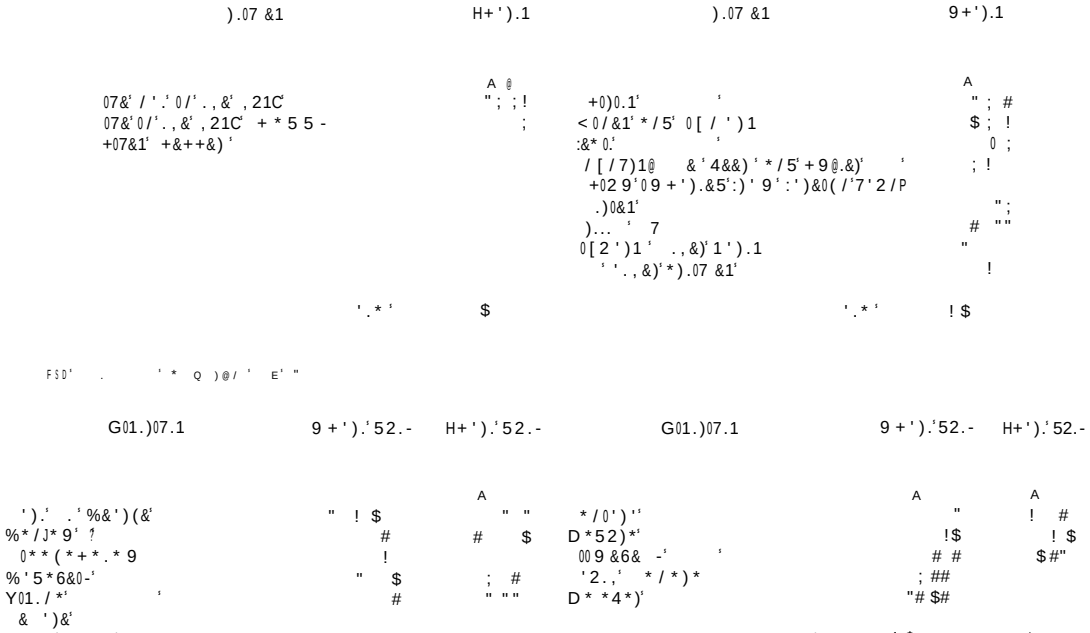

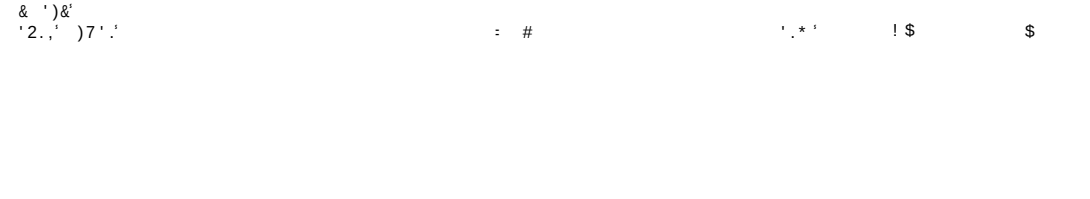

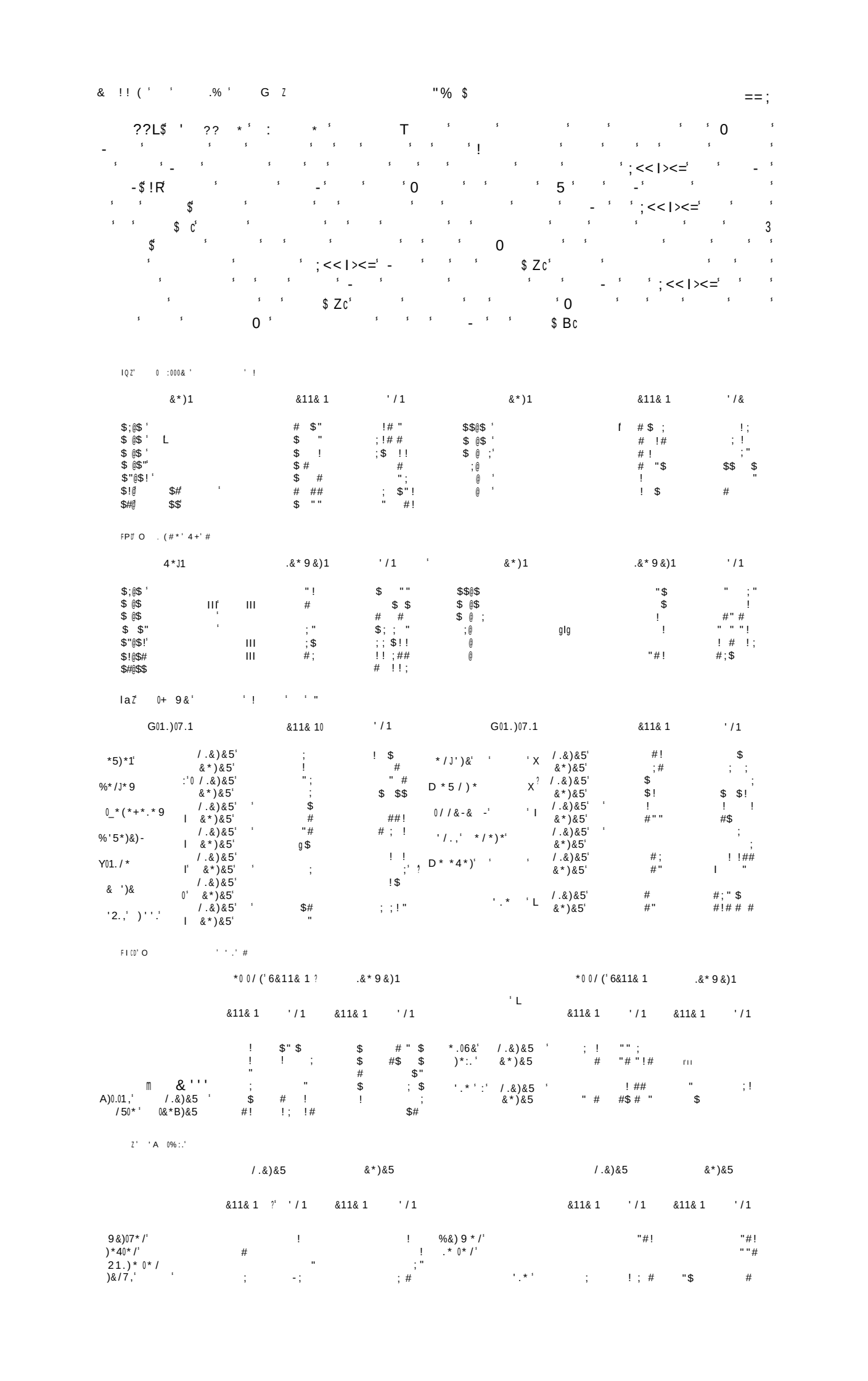

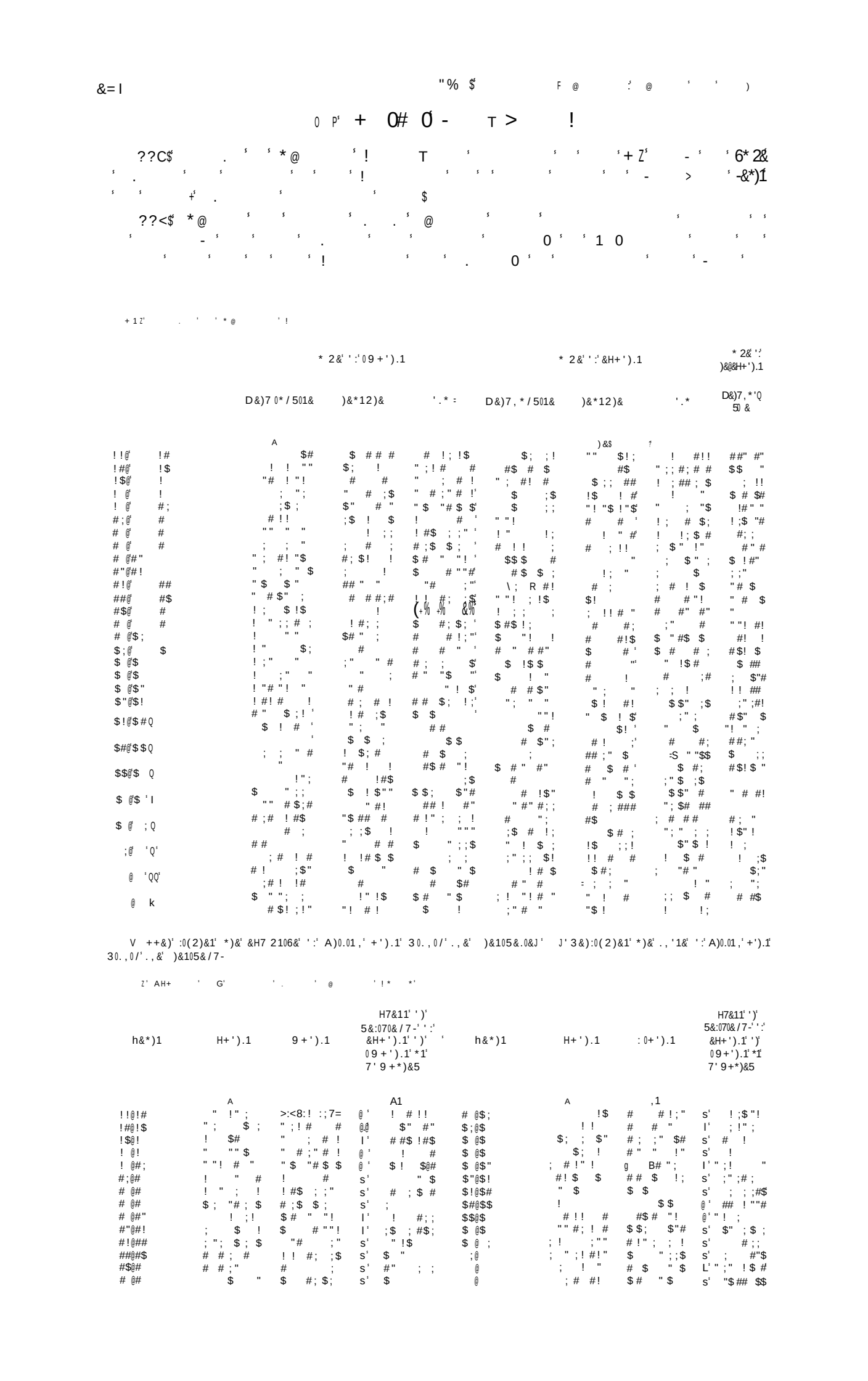

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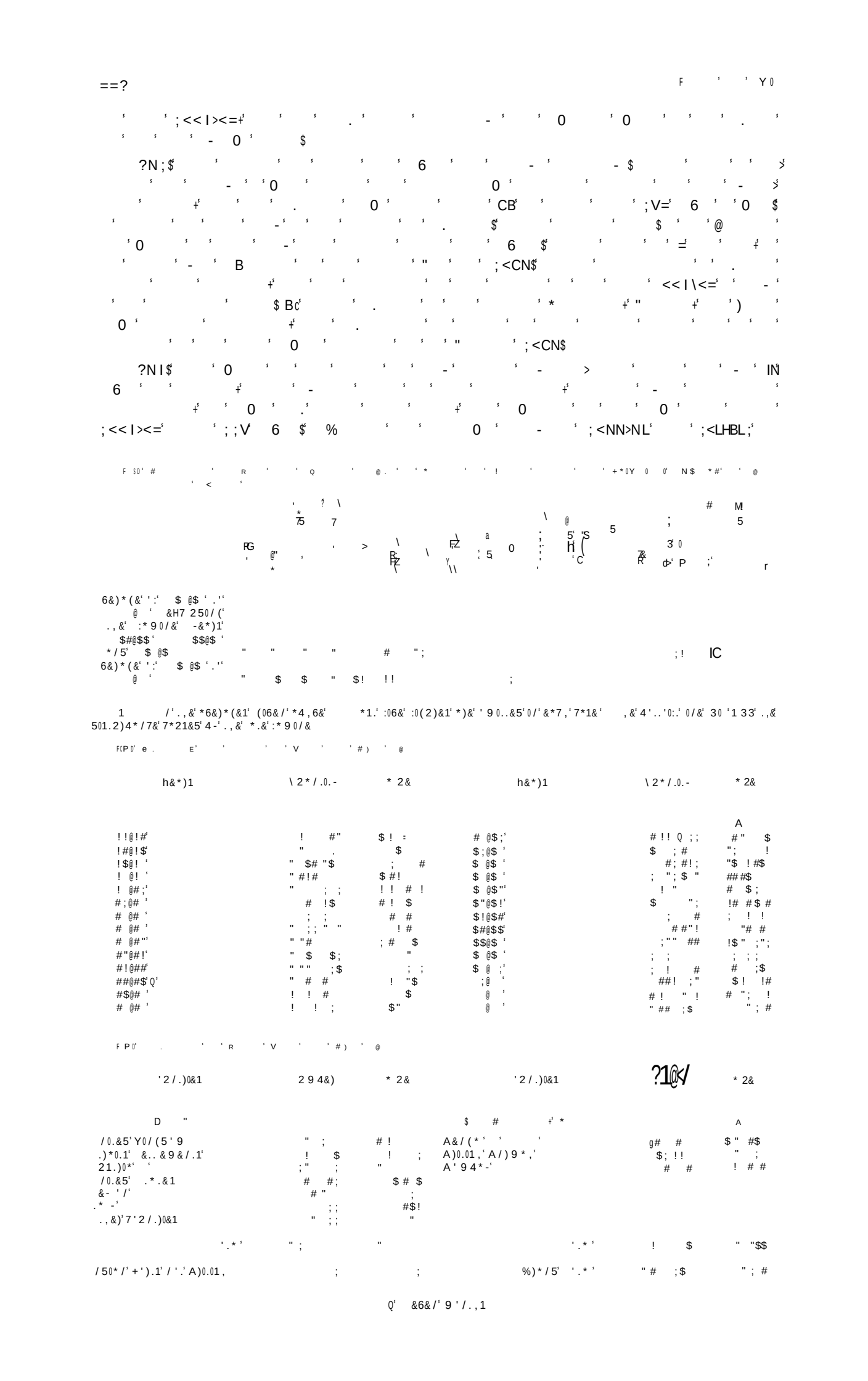

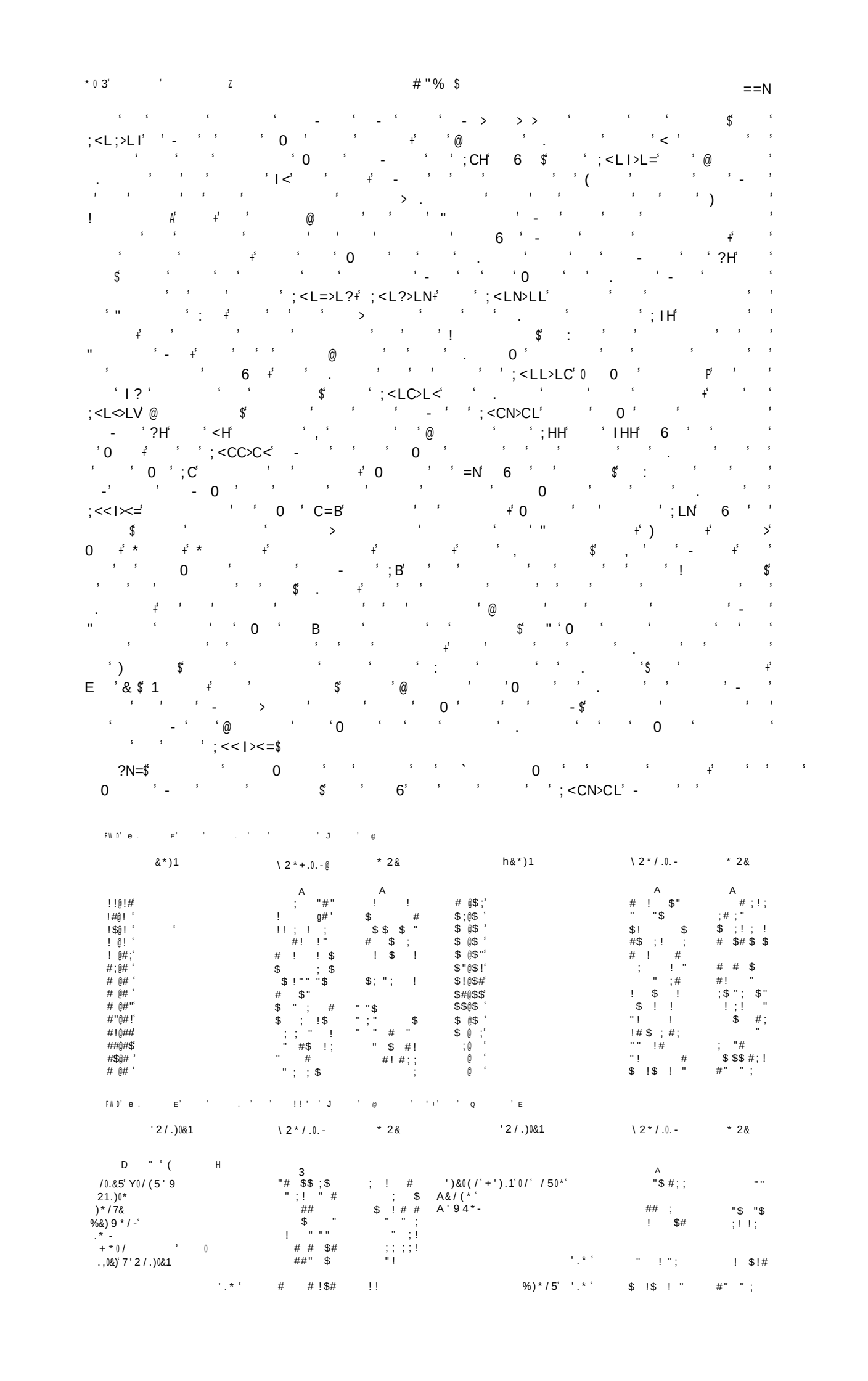

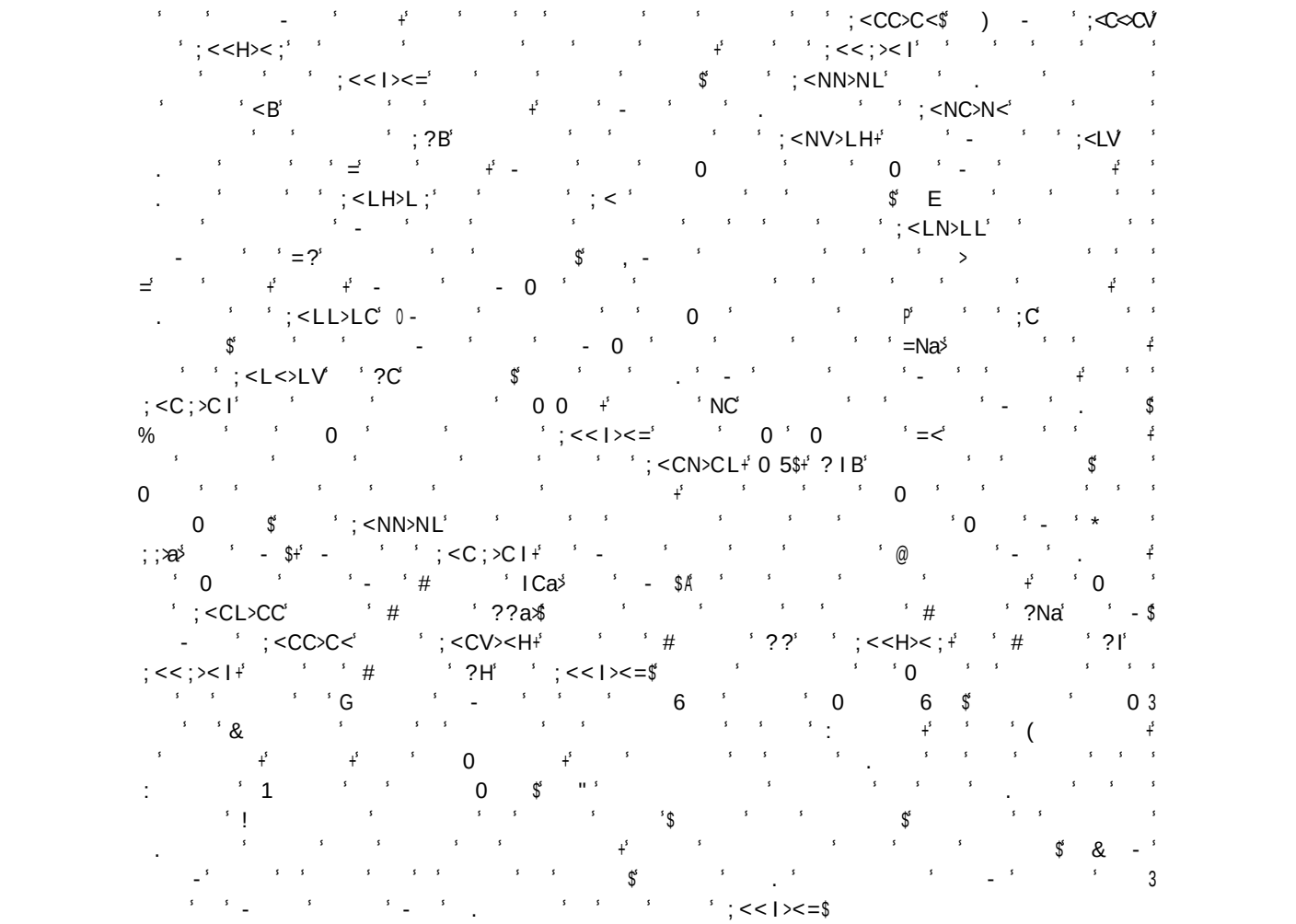

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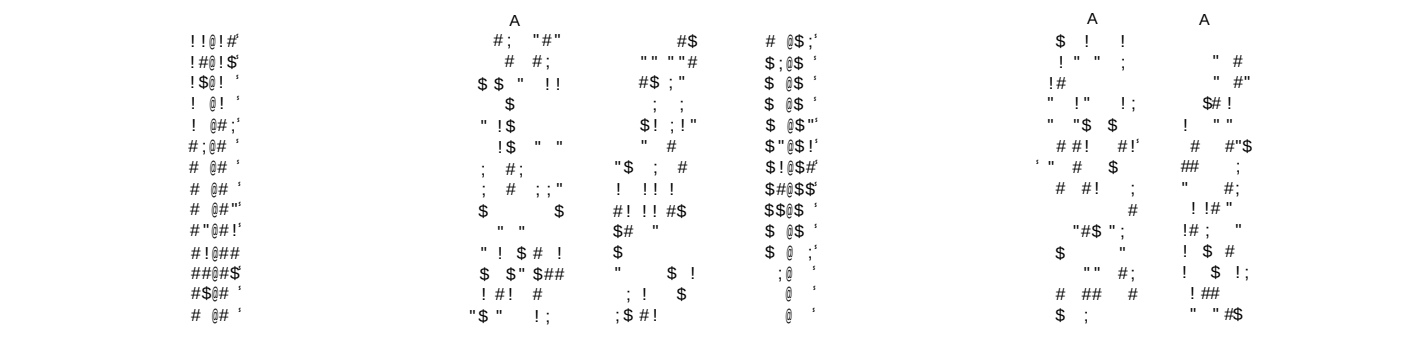

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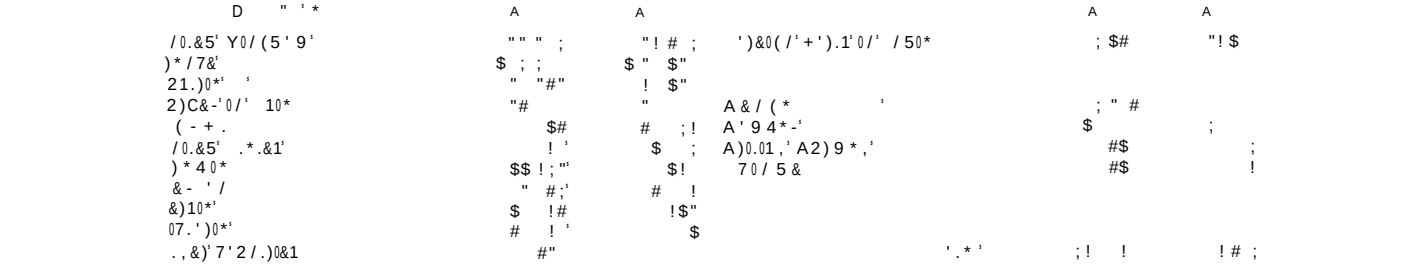

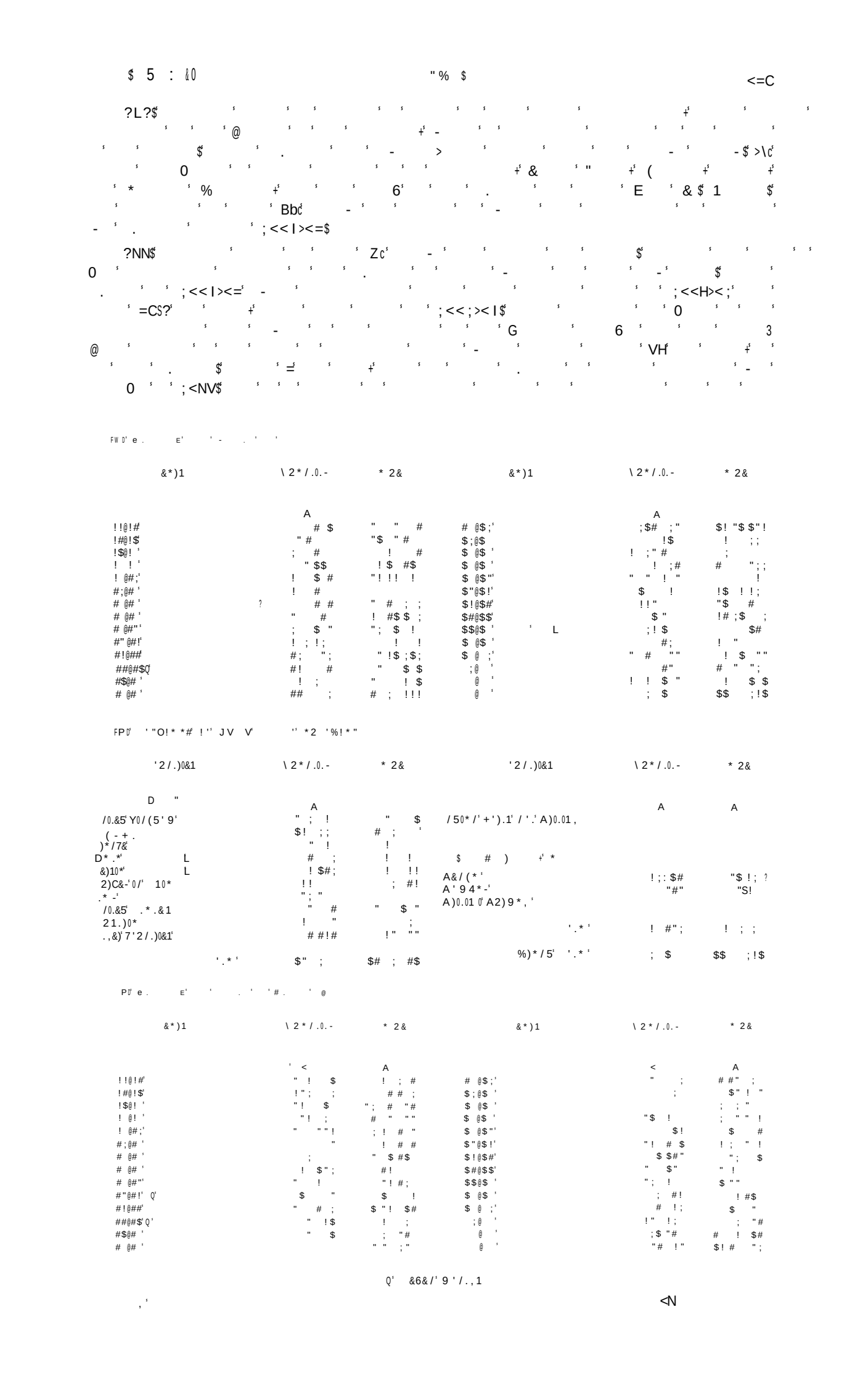

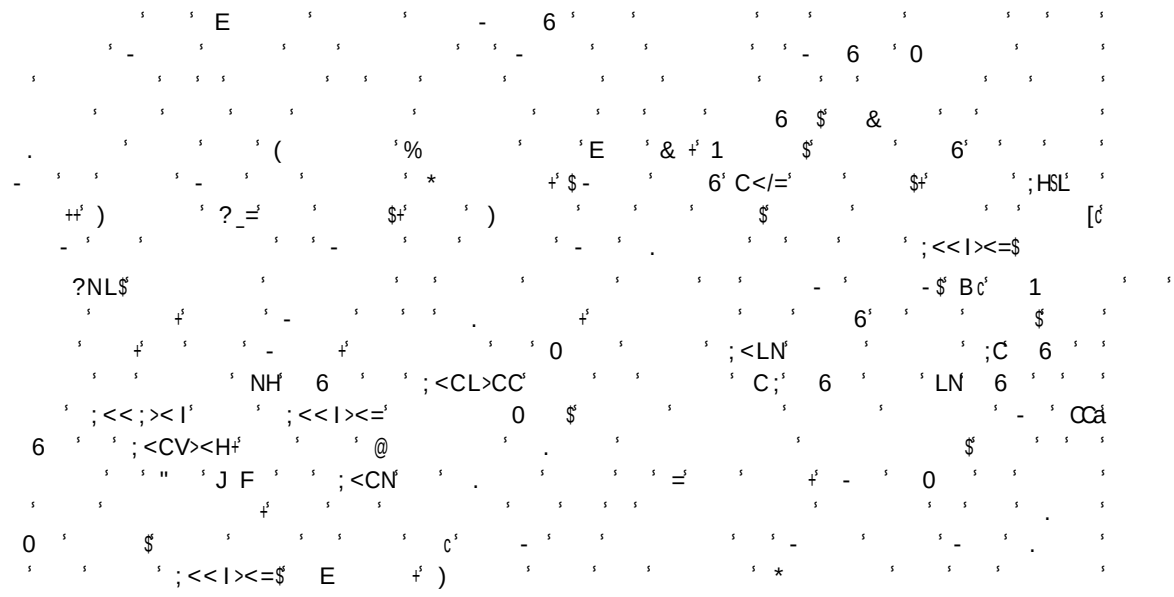

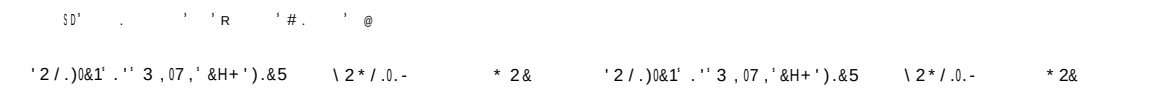

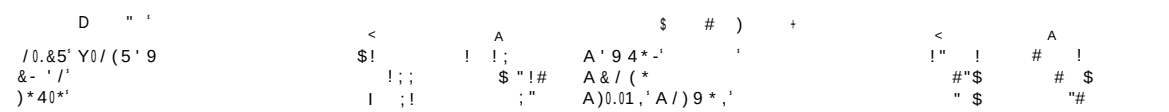

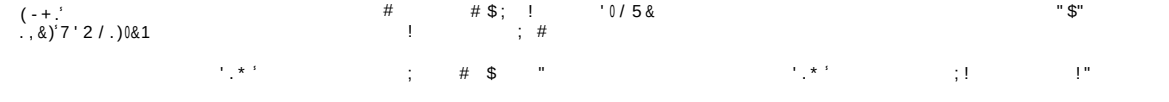

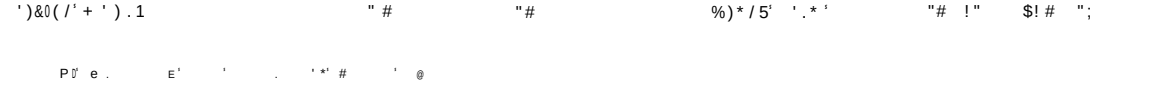

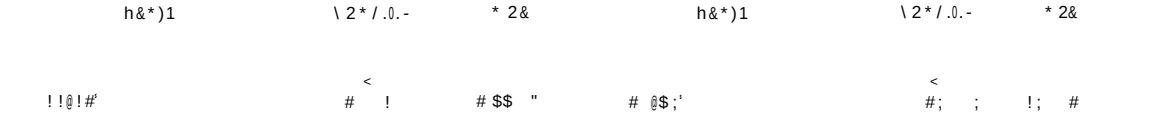

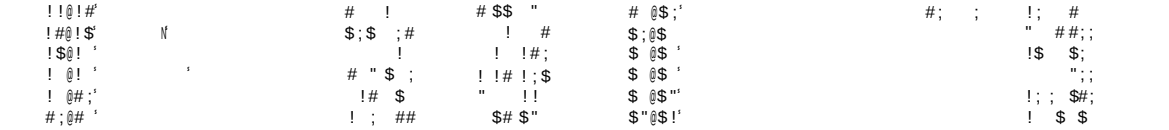

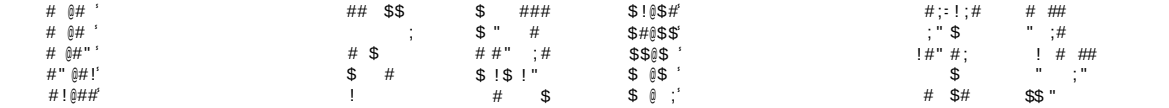

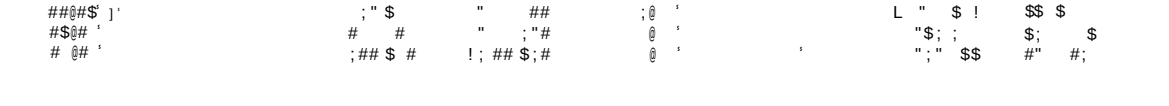

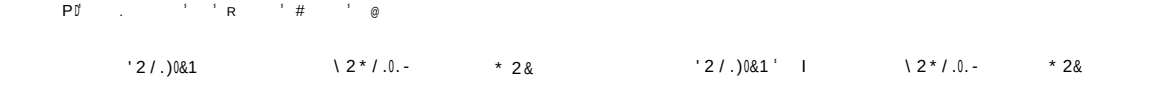

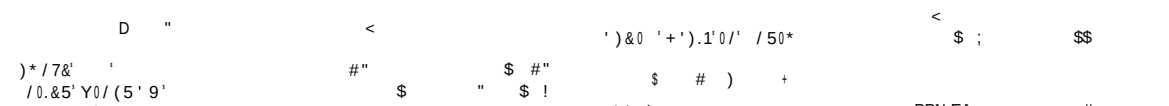

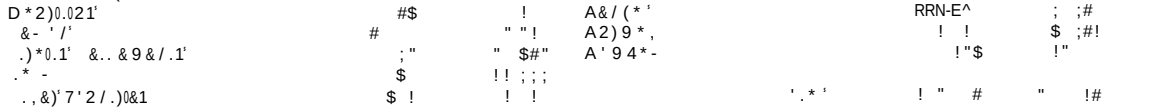

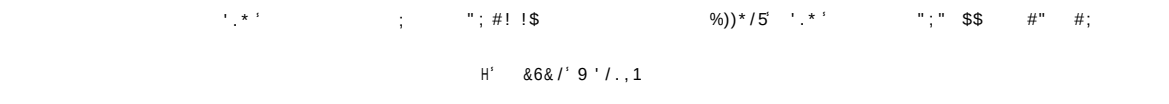

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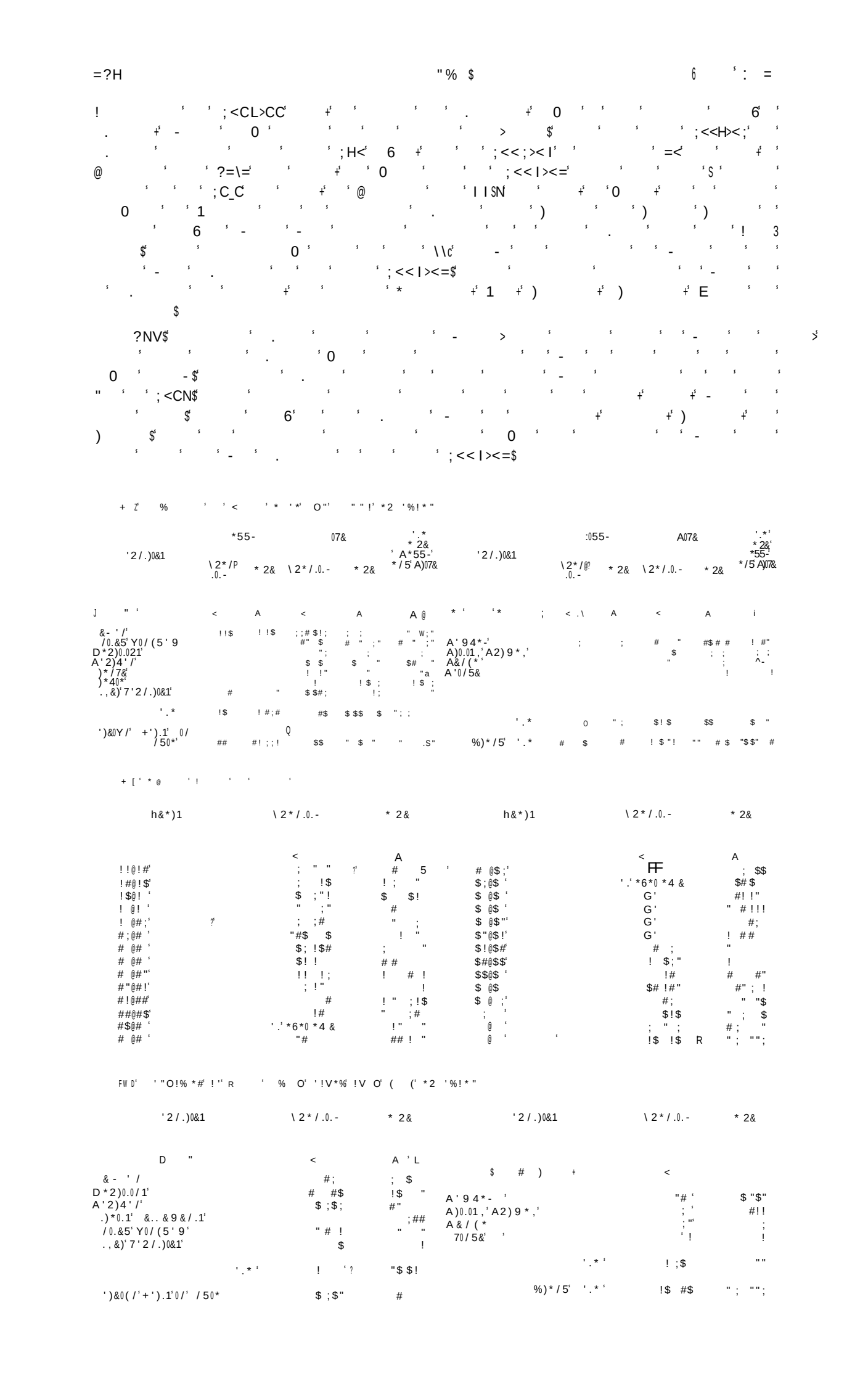

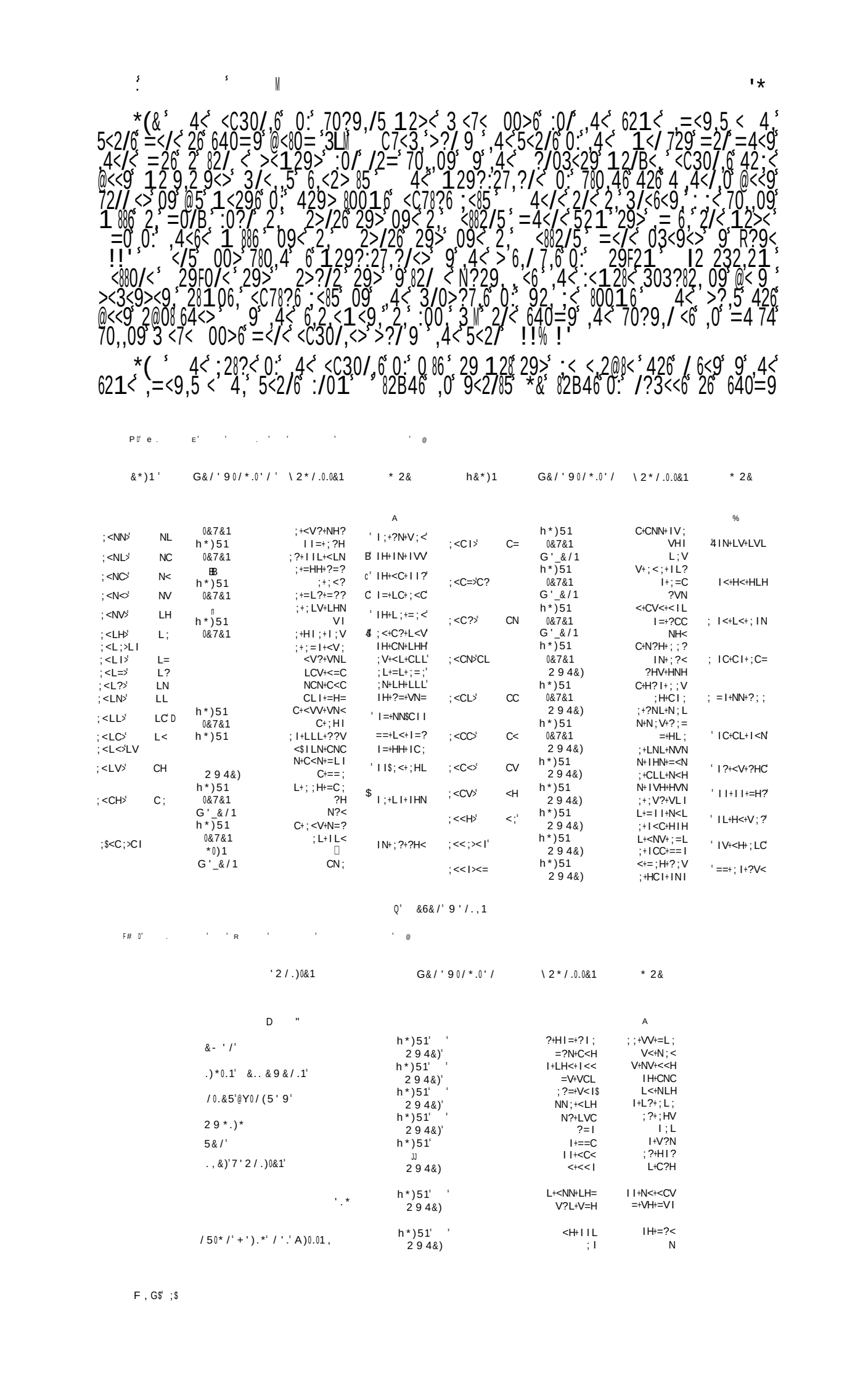

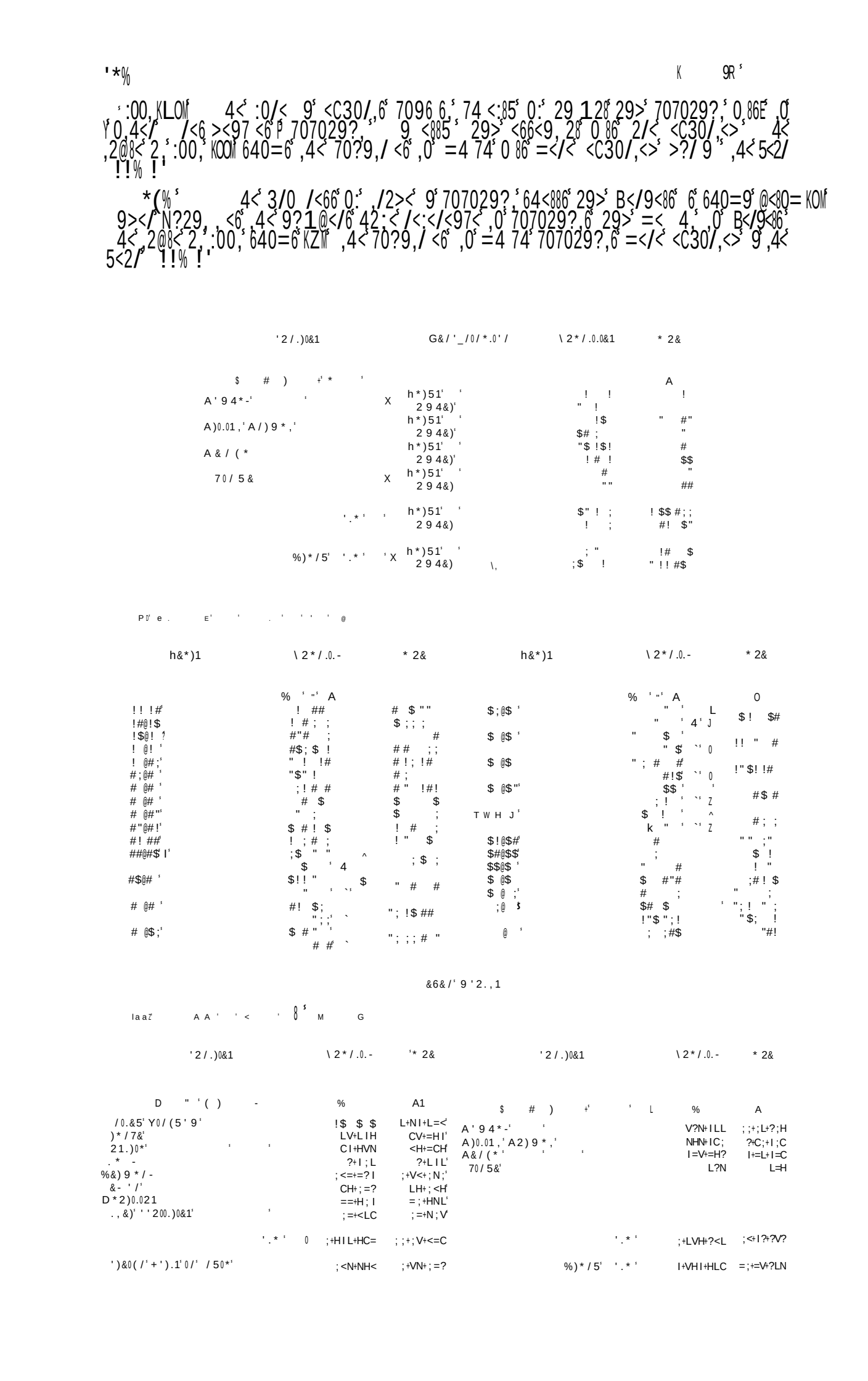

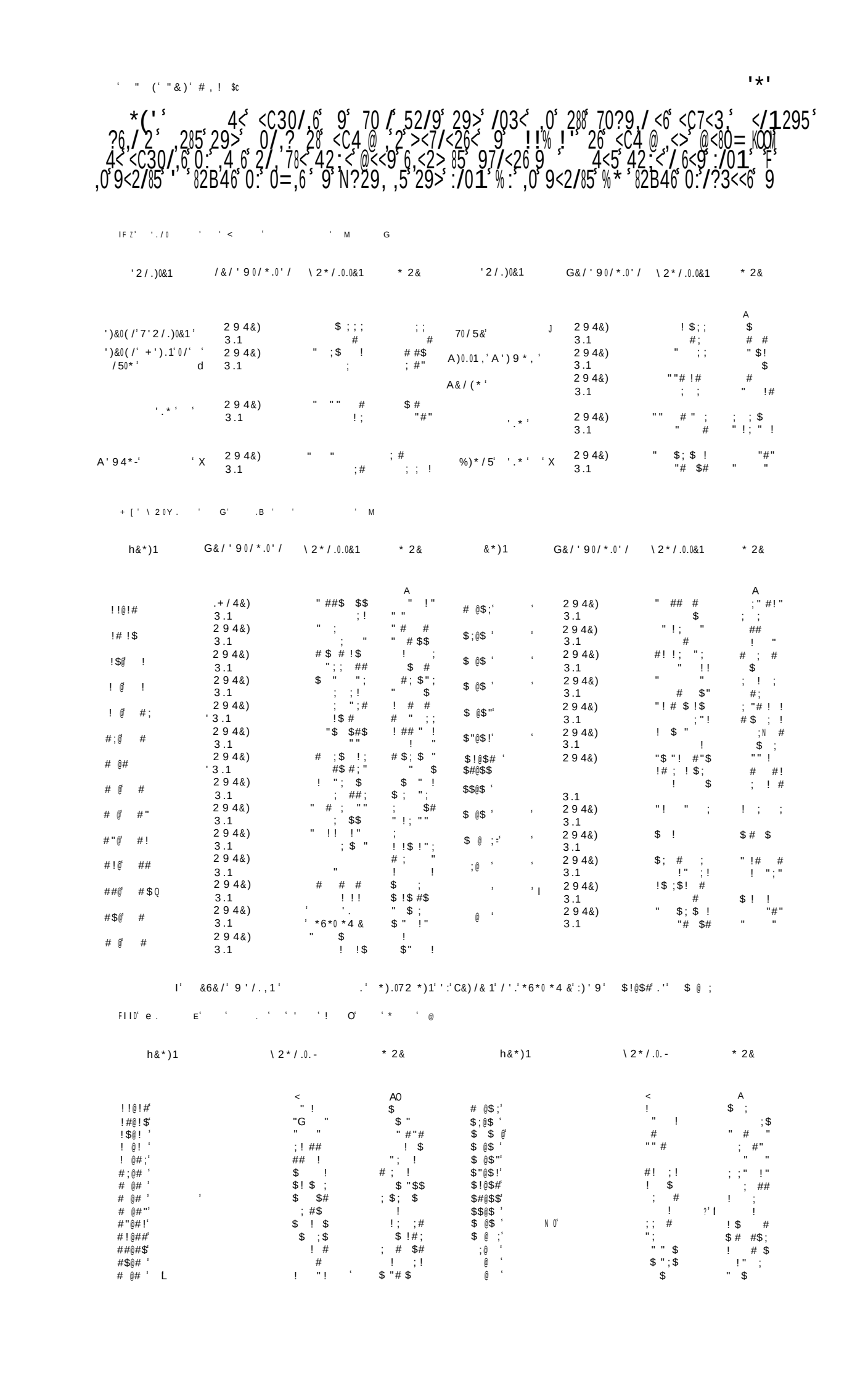

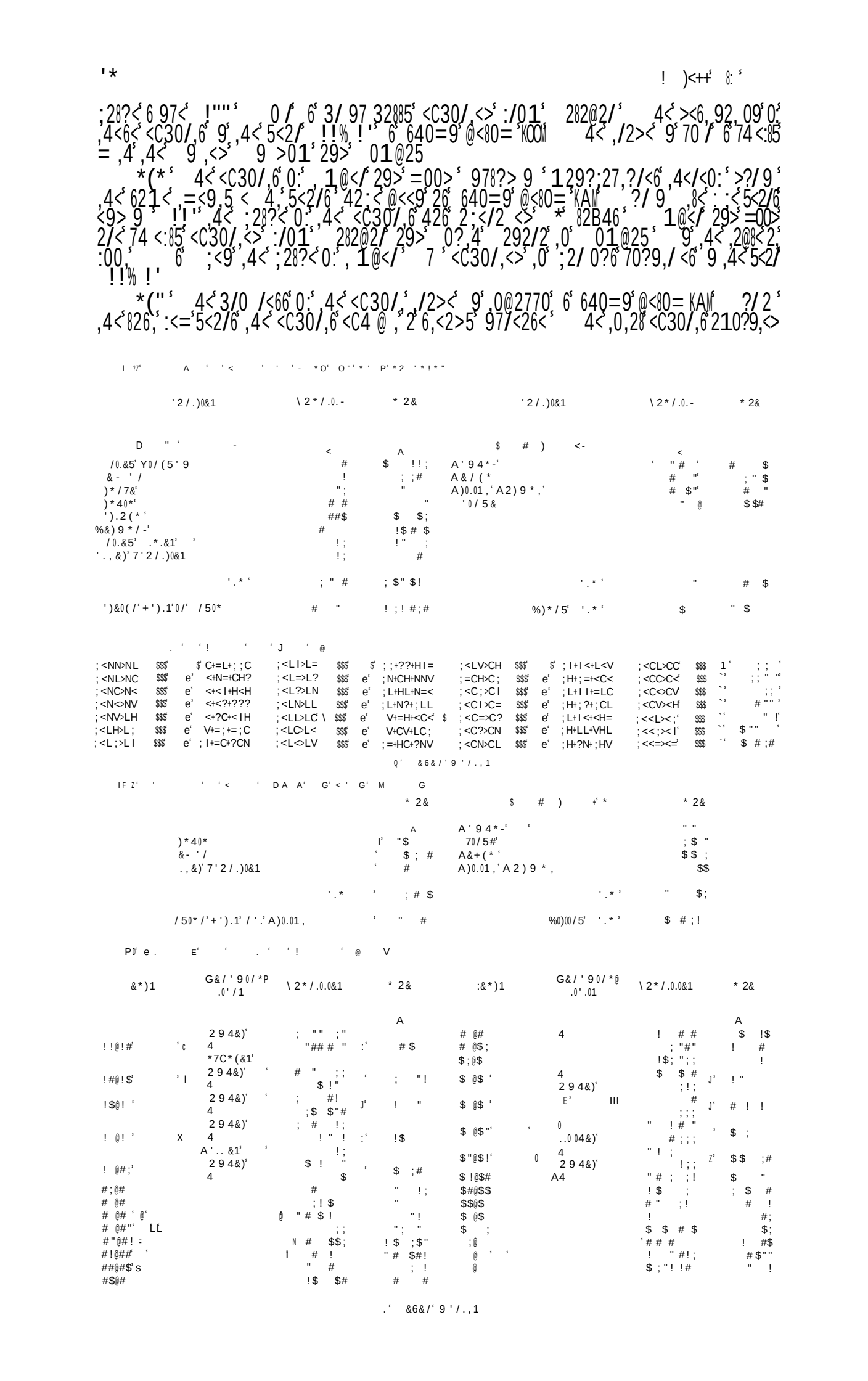

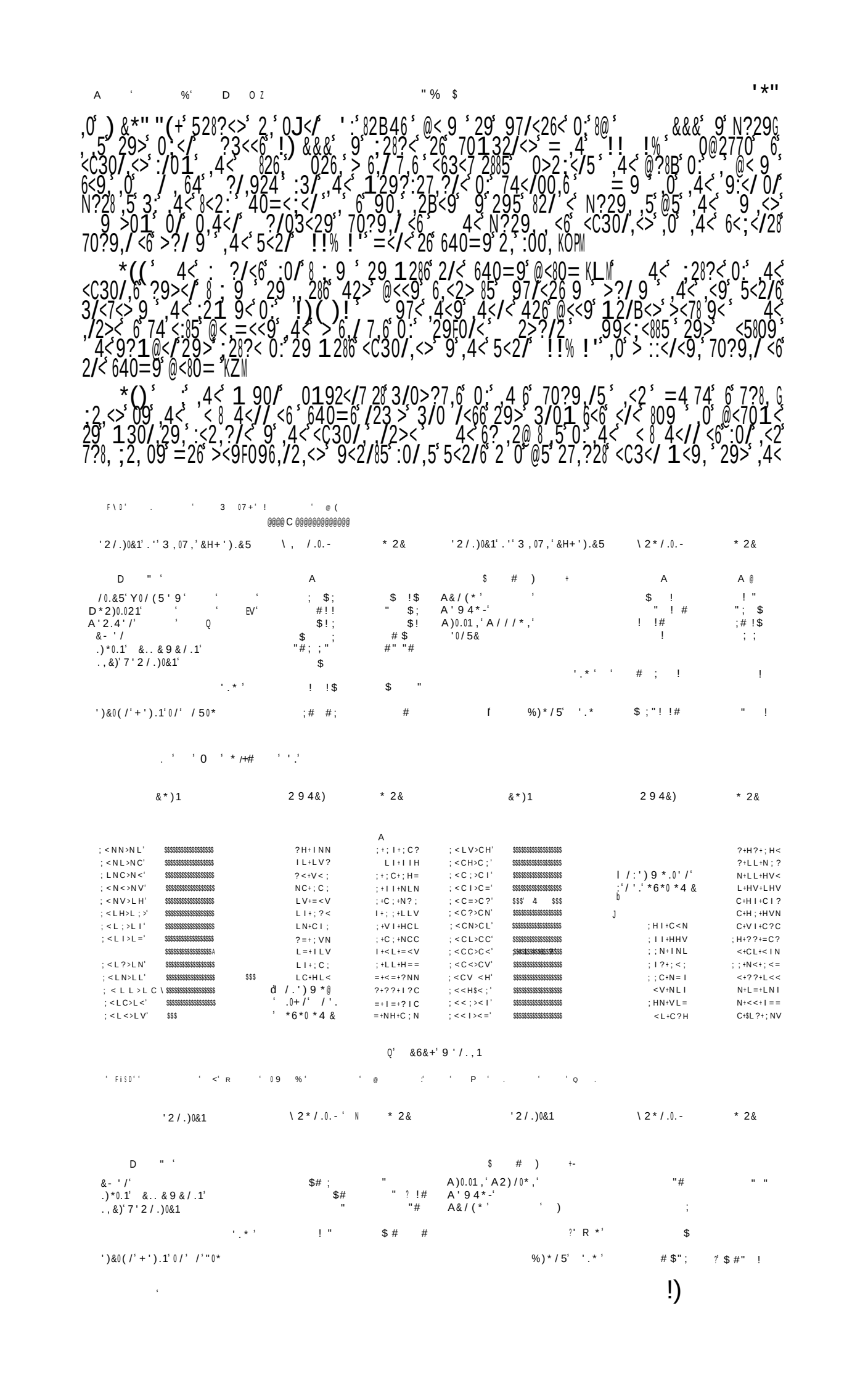

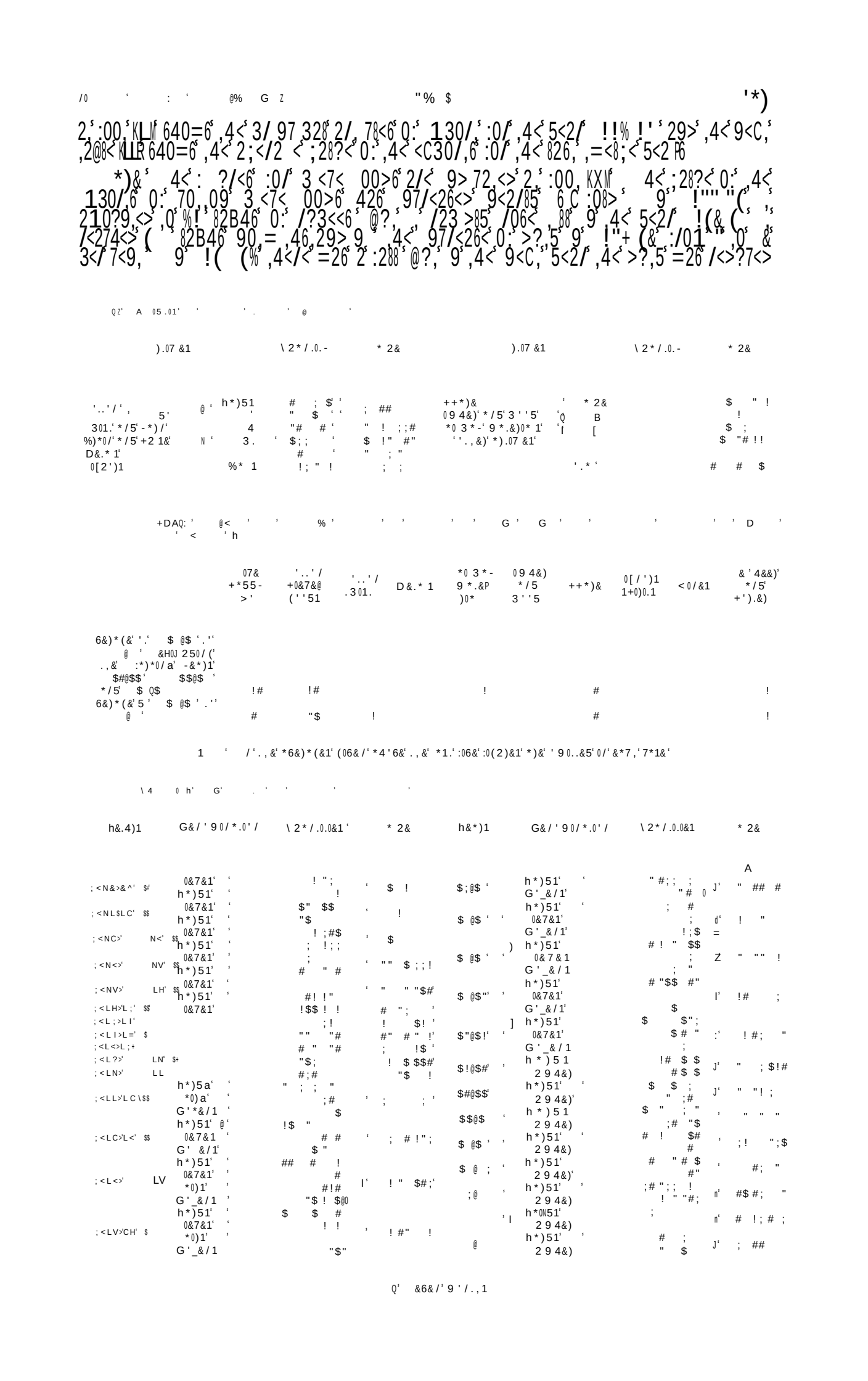

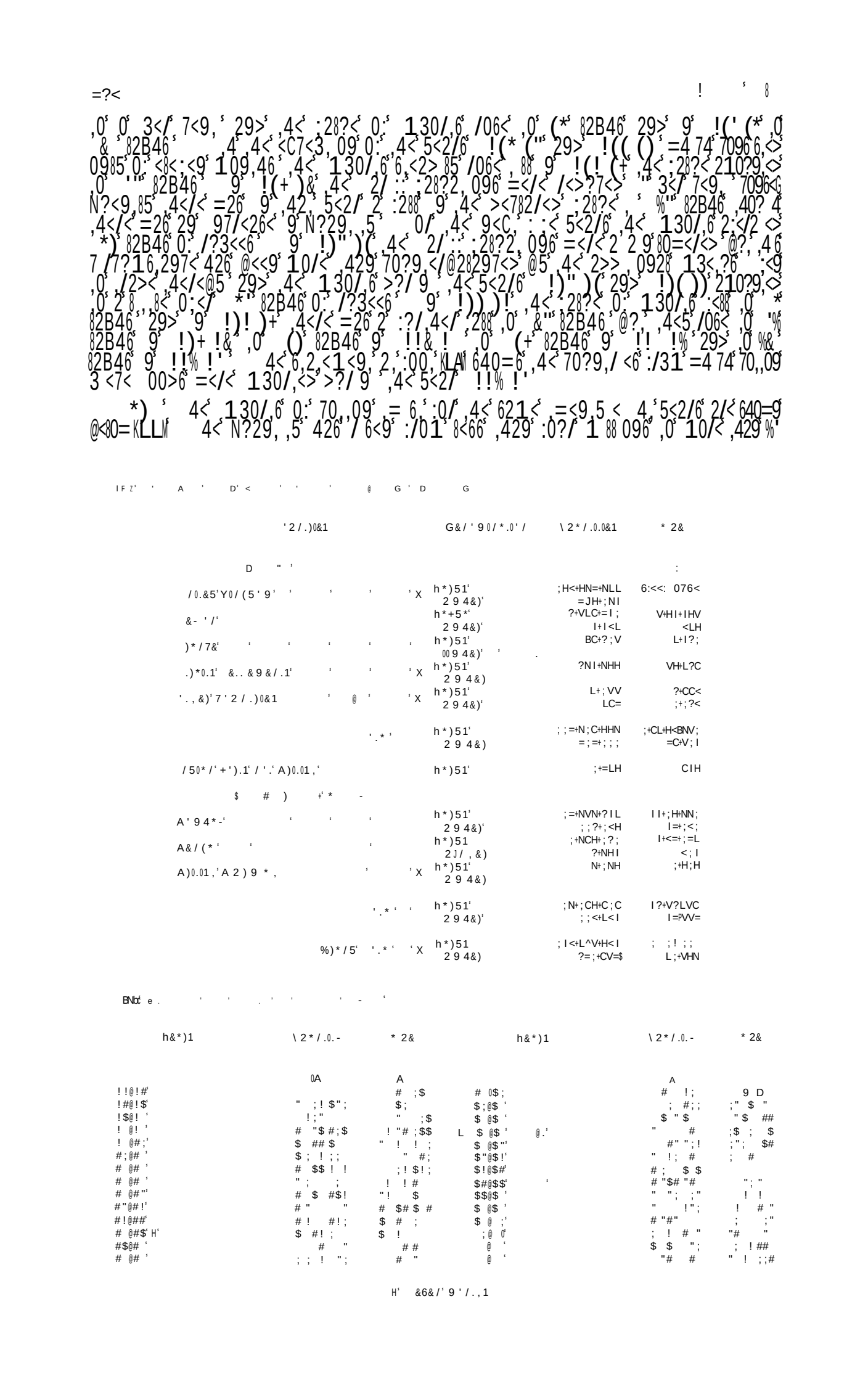

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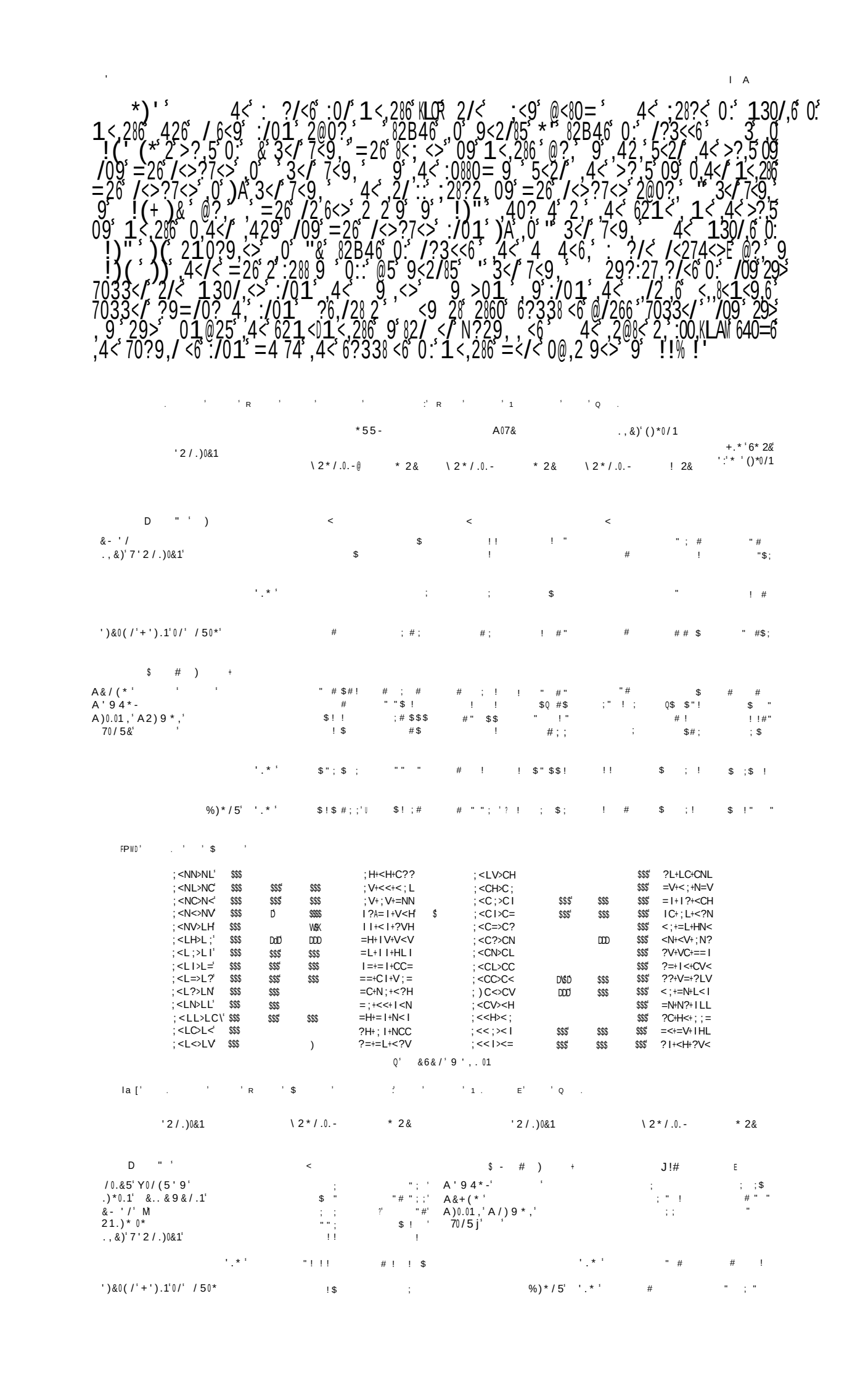

)' 4< 3/0 /<66 9' ,4< 130/,6 0:' 63 / ,6 6 640=9' 9' ,4< 6?@F0 9<>' 6,2,<9F< , KL 7/ 9 ,4<'826,': :<'5<2/6 ,4< 130/,6 42:<'2:</2 <>' +(&+(2880966 9' N?29,,5 29>' & ")%*' /?3<<6 9' :28?<' 3' 0' !"!"+' ,4< >?,5 8<; <>' 09' 63 / ,6 D26 ?3<<6 ! & 2' 28809' ,=26 9' ,42,'5<2/' /2 6<>',0' ?3<<6 ' 4 6' /2,<'709, 9?<>' 9' :0/7<' 88' !)"' =4<9' ,=26 :?/,4</' /2 6<>',0' ?3<<6 *' 4< 130/,6 0:' !)( ))' 640=' 2 :288 9 '0:.' 0:' 3</' 7<9, ' @?,' ,4 6 729' 42/>85 @<' 2,,/ @?,<> 608<85',0',4<' 03</2, 09'0:' ,4<'4 4</' /2,'<0:' >? 5 ' 4<' 130/,6 : ?7,?2,<' 7096 ></2@85 :/01',5<2/' ,0' 5<2/' 29>' ,4< /' :28?<' 9' !)))!' =26',4<'4 4<6,'/<70/><>' 4< ,2@8<'2,':00,' KLO 640=6' 4< N?29, ,5' 29>' ;28?<' 0:' ,4<' 63 / ,6 130/,<> :/01',4< 6<;</28 # U?9,/ <6 9' ,4<' 5<2/' !!% !'

*)"' 4< 130/,6 0:' = 9<6' :0/' =<9,5 < 4,' 5<2/6' 2/<' ;<9' @<80=' KX 4< : ?/<6 : ?7,?2,<' :</5' 1?74 ' @?,' 09' ,4<' =408<' >?/ 9 ,4<' 82,'</' 5<2/6 0:' ,4< 6</ <<',4</<' 426' @<<9' 29' 97/<26<' 4<' >?,5' 0/ 92885' 8<; <>' 09' = 9<6' 29>' 8 N?0/6' 26' /?3<<,3</' 28809 E' =26' 97/<26<>' 0' A' /?3<<6 9' !"+' 9' !(% 2' > ::</<9,28 /2,<'0:' /?3<<' 29>' ?3<<6 %=26 3/<67/ @<>' :0/' 4 4</' = 9<6 29>' 0',4</' B 9>6 /<63<7, ';<85' @?,' 9' !(" ,4 6 =26' 2@29>09<>' 29>' ,4< 0/ 928 ?9 :0/1' /2,<

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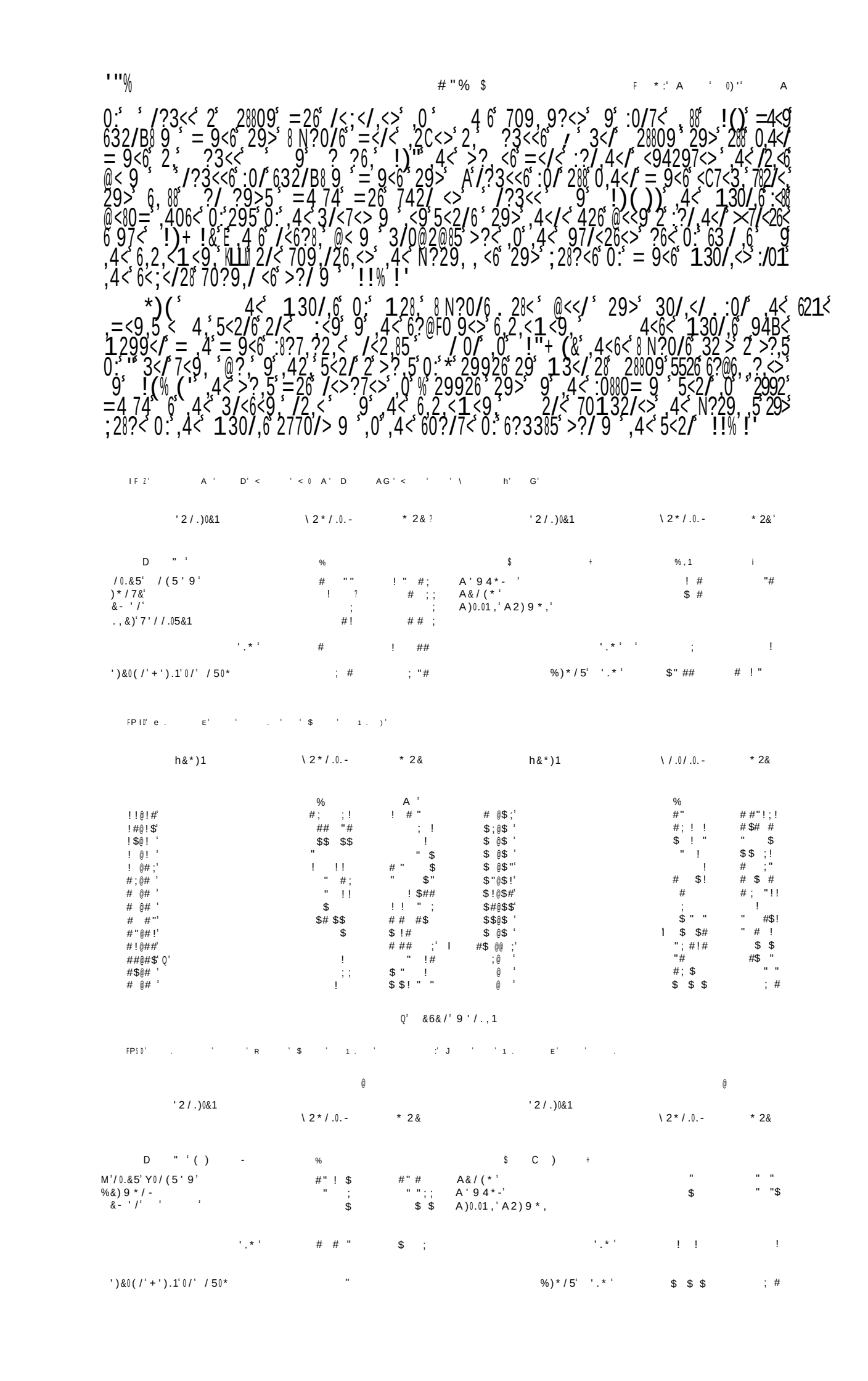

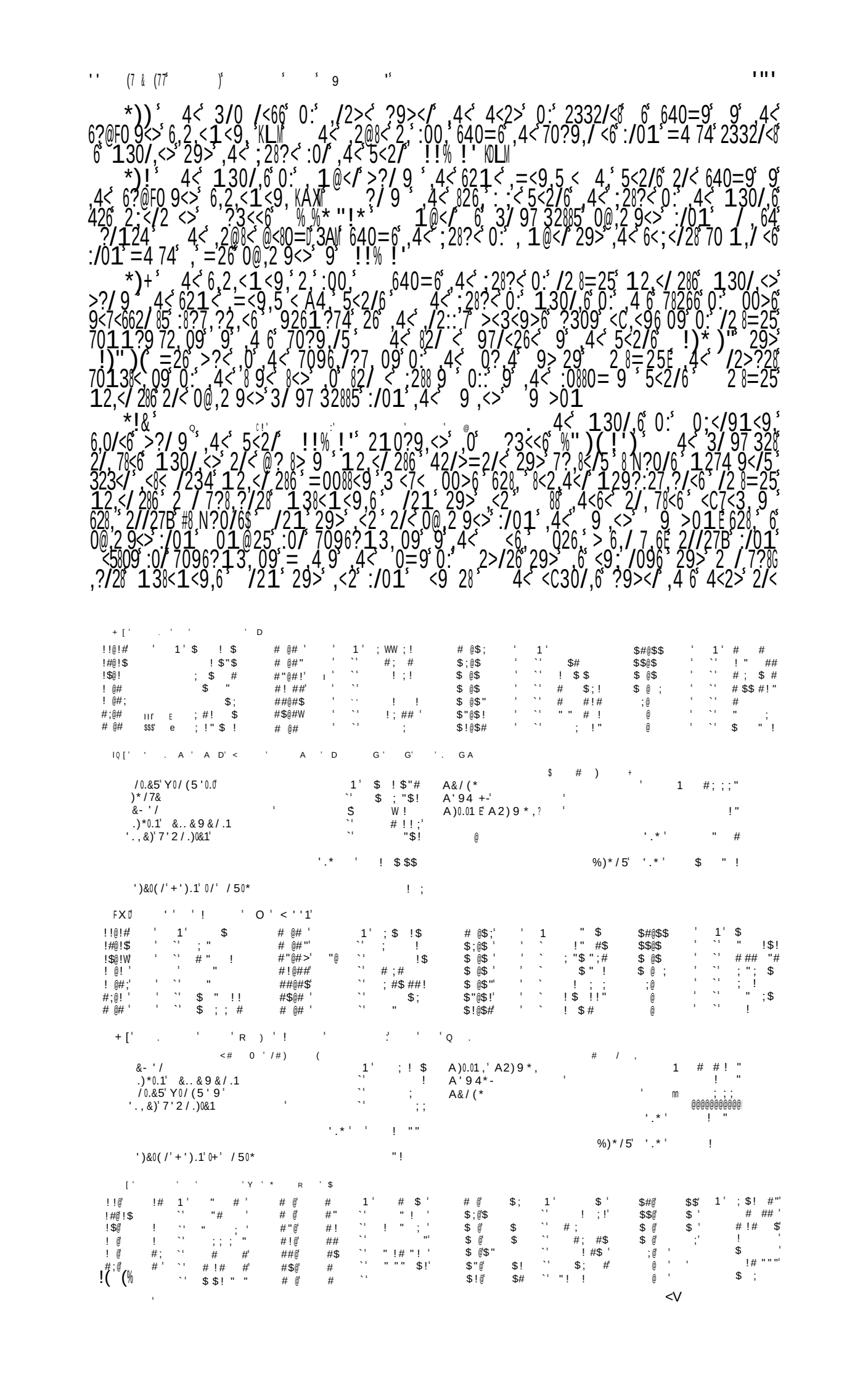

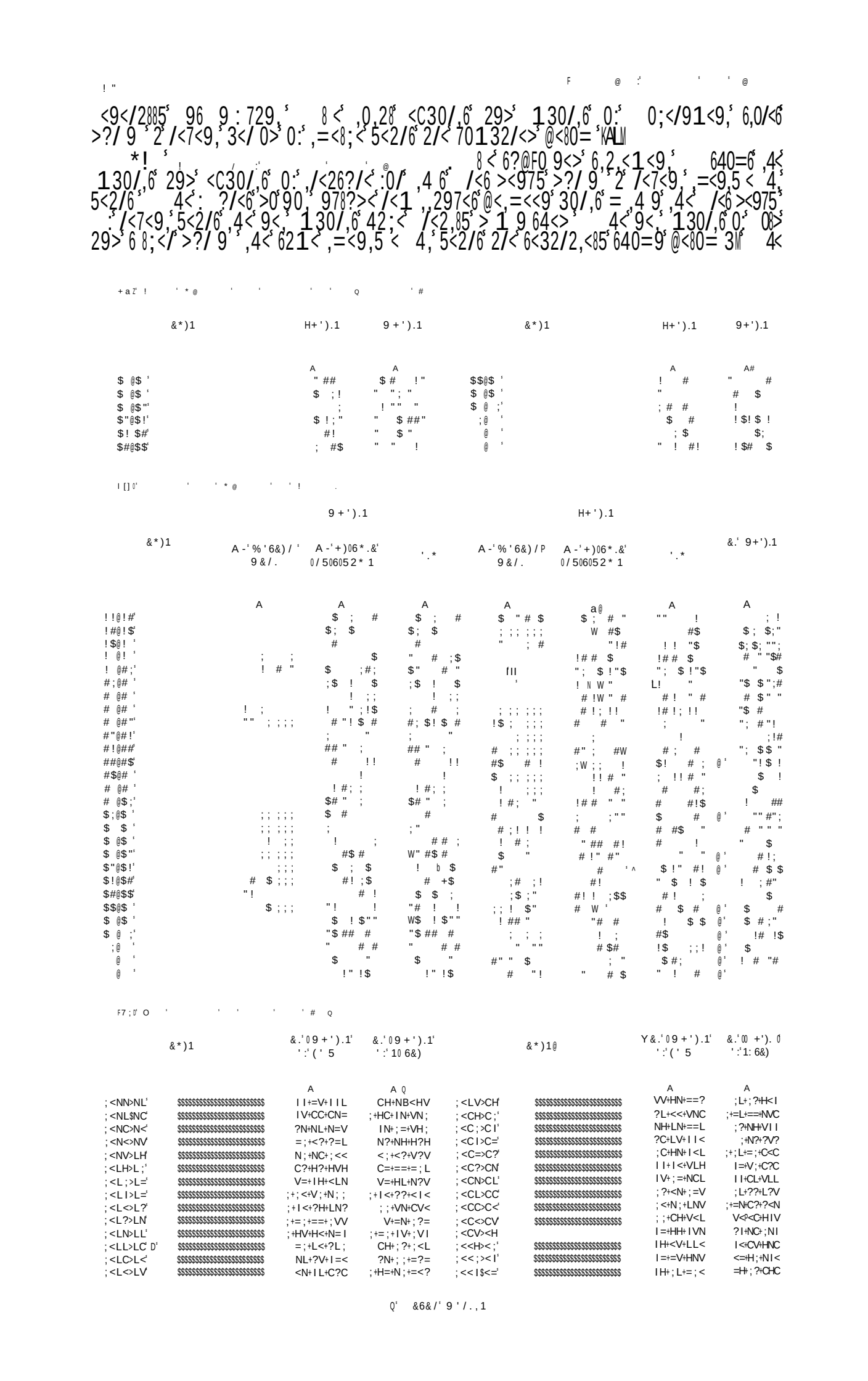

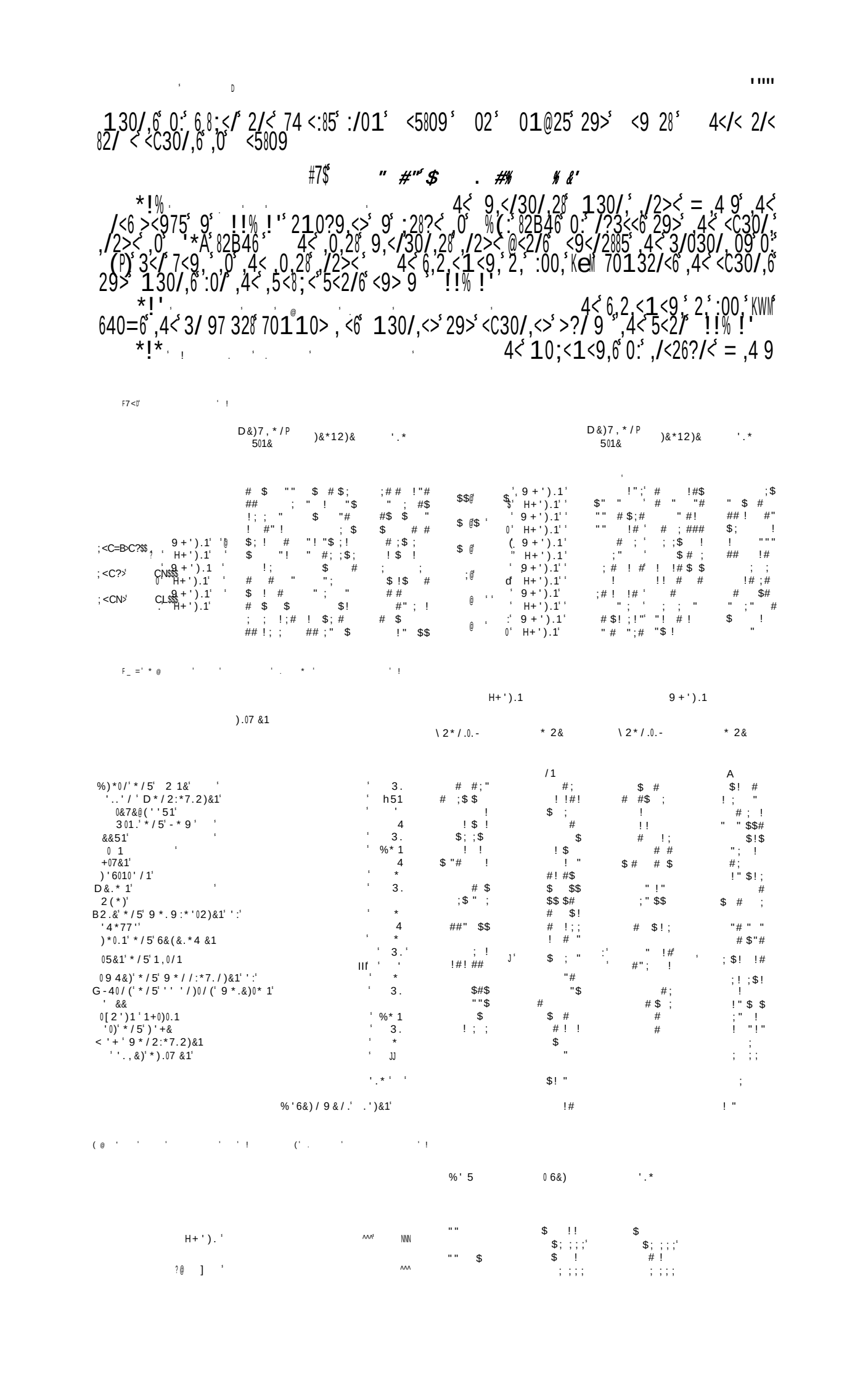

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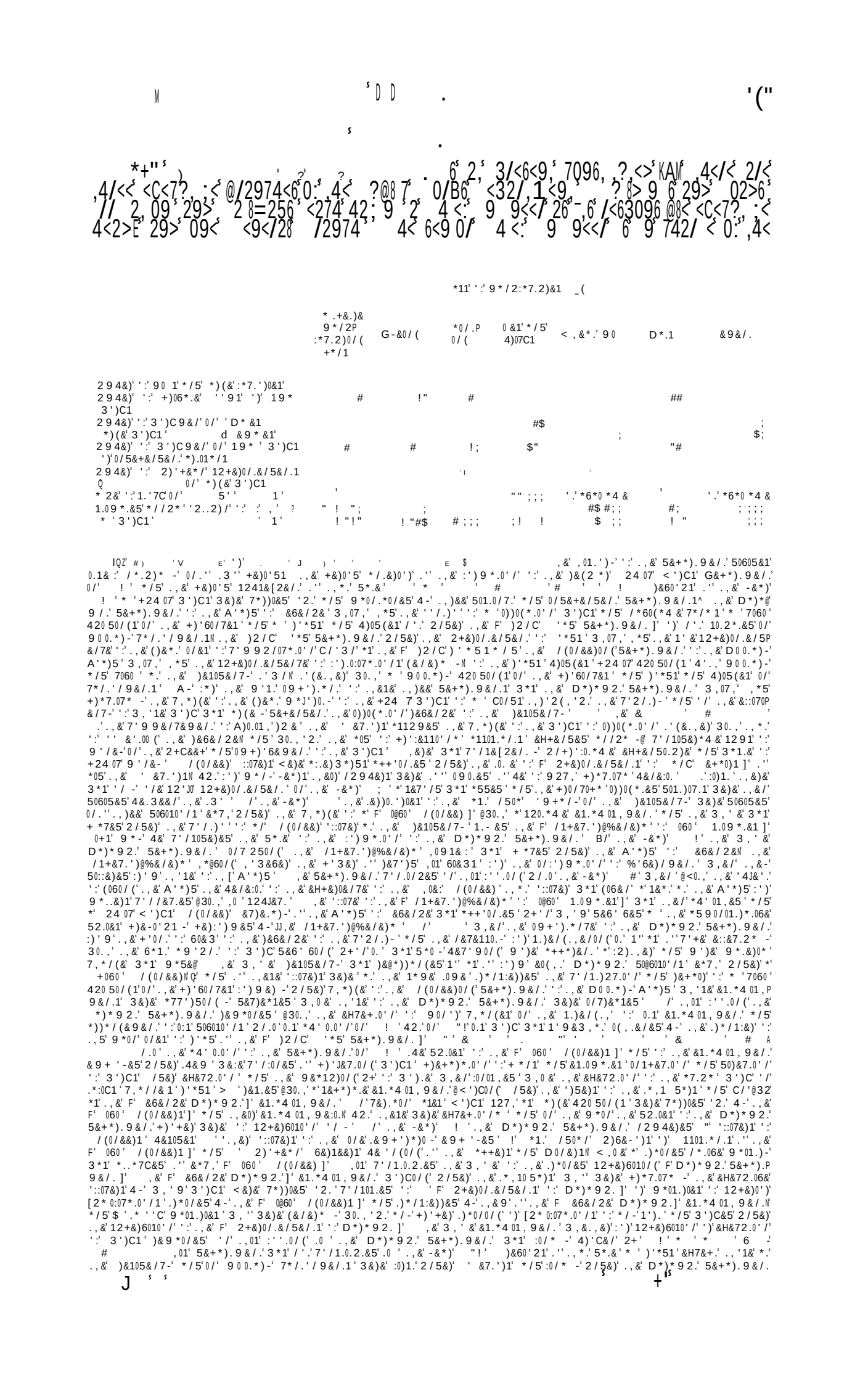

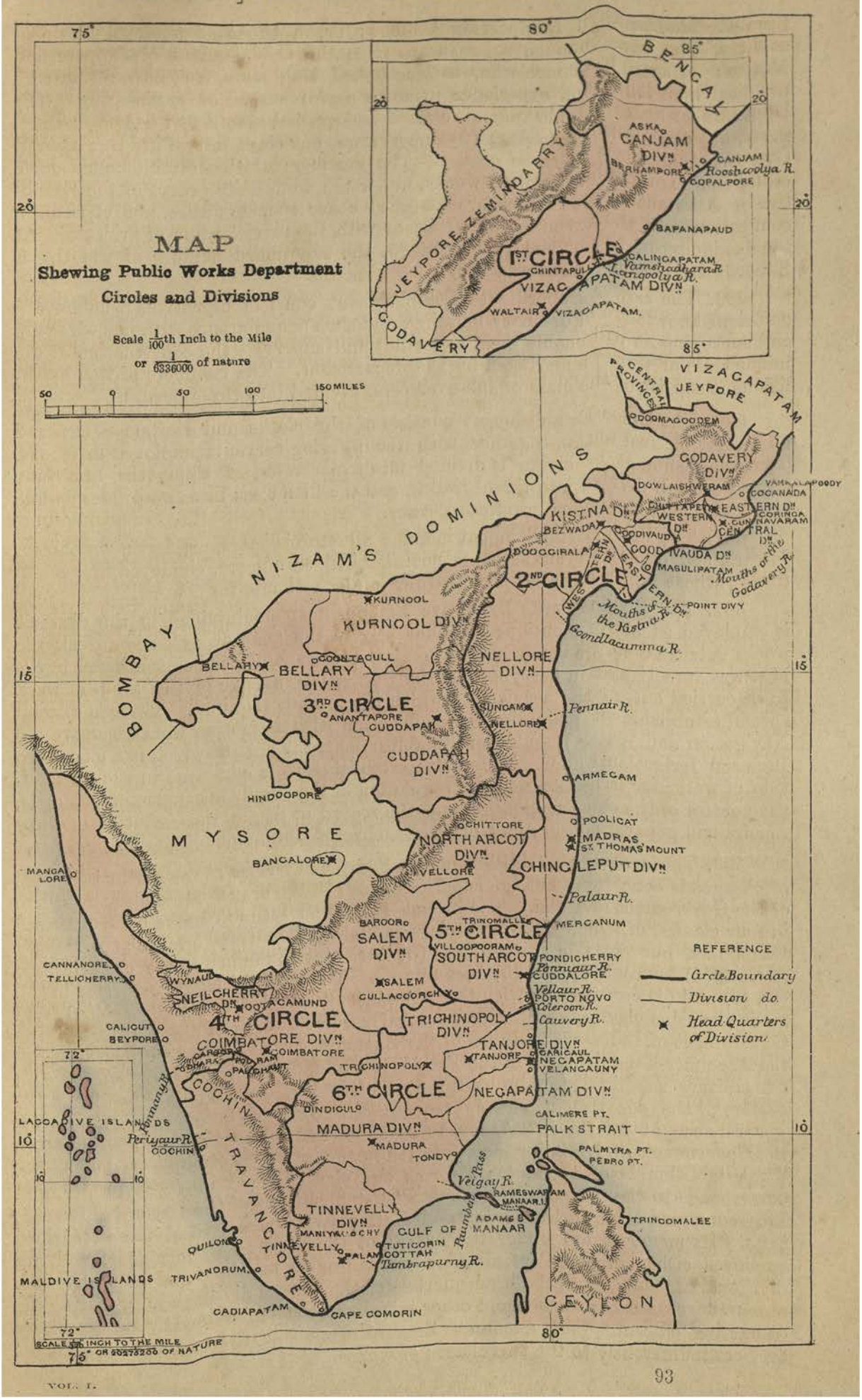
MAP
Shewing Public Works Department
Circles and Divisions
Scale 1/100th Inch to the Mile
or 1/6336000 of nature
50 0 50 100 150 MILES
BENGAL
ASKA
CANJAM DIVN
CANJAM
BERHAMPORE
Rooshcoolya R.
GOPALPORE
BAPANAPAUD
JEYPORE ZEMINDARY
1ST CIRCLE
CALINGAPATAM
CHINTAPULLY
Vamsadhara R.
Nagoolya R.
VIZAGAPATAM DIVN
WALTAIR
VIZACAPATAM.
GODAVERY
VIZAGAPATAM
CENTRAL PROVINCES
JEYPORE
DOOMAGOODEM
GODAVERY DIVN
DOWLAISHWERAM
COCANADA
EASTERN DN
CORINGA
NAVARAM
CENTRAL DN
KISTNA DN
BEZWADA
GOODIVAUD
WESTERN DN
GOODIVAUDA DN
DOOGGIRALA
MASULIPATAM
Mouths of the Godavery R.
2ND CIRCLE
WESTERN EASTERN DN
POINT DIVY
Mouths of the Kistna R.
Goondlacumma R.
NIZAM'S DOMINIONS
BOMBAY
KURNOOL
KURNOOL DIVN
BELLARY
COONTACULL
BELLARY DIVN
NELLORE DIVN
3RD CIRCLE
ANANTAPORE
CUDDAPAH
SUNGAM
NELLORE
Pennair R.
CUDDAPAH DIVN
ARMEGAM
HINDOOPORE
CHITTORE
POOLICAT
MADRAS
ST THOMAS' MOUNT
MYSORE
NORTH ARCOT DIVN
BANGALORE
VELLORE
CHINGLEPUT DIVN
MANGALORE
Palaur R.
BAROOR
SALEM DIVN
TRINOMALLEE
5TH CIRCLE
MERCANUM
VILLOOPOORAM
SOUTH ARCOT DIVN
PONDICHERRY
Pennaur R.
CUDDALORE
CANNANORE
TELLICHERRY
WYNAUD
SALEM
CULLACOORCHY
Vellaur R.
PORTO NOVO
Coleroon R.
NEILCHERRY DN
COTTACAMUND
4TH CIRCLE
TRICHINOPOLY DIVN
Cauvery R.
CALICUT
BEYPORE
COIMBATORE DIVN
COIMBATORE
TANJORE DIVN
TANJORE
GARICAUL
NEGAPATAM
VELANGAUNY
TRICHINOPOLY
6TH CIRCLE
NEGAPATAM DIVN
COCHIN
DINDIGUL
CALIMERE PT.
PALK STRAIT
LACCADIVE ISLANDS
Periyaur R.
COCHIN
MADURA DIVN
MADURA
TONDY
PALMYRA PT.
PEDRO PT.
Velgay R.
RAMESWARAM
MANAAR I.
TINNEVELLY DIVN
ADAMS B.
MANAAR
TRINCOMALEE
MANIYACHY
GULF OF
TINNEVELLY
TUTICORIN
PALAMCOTTAH
Tambraparny R.
QUILON
TRAVANCORE
MALDIVE ISLANDS
TRIVANDRUM
CEYLON
CADIAPATAM
CAPE COMORIN
SCALE 1 INCH TO THE MILE
OR 1/6336000 OF NATURE
REFERENCE
Circle Boundary
Division do.
Head Quarters of Division

')& . A > 6 ' & ")G $

:/01 ,4 2>/26 : 9 9<</ 9 0883< <E 0/ 9 ,4 726 0: 0528 9 9<</ 6088> </6 =40 42:< 0@,2 9<> 2 7</, : 72,< :/01 4< 01129>29, 0: 233</6 29> 9</6E 0/ 2 2 9 :/01 1<9 =40 26 <7429 728 9 9<</6 7U 42:< 2 ,40/0? 4 3/27, 728 B90=8<> < 29> <C3</ <97< 9 6011 ?6<:?8 @/2974 0: <9 9<</ 9 4 33</ ?@0/> 92,< 6,2@8 6411<9, 6 78266<> 29> /2><> 26 :0880=6 . # $?@ 9 9<</6 09< 78266 9 ,4/<< /2><6E # $?3</; 60/6 09< 78266 9 ,=0 /2><6E 29>#'$:</6<</6 09< 78266 9 ,4/<< /2><6 4< 11<1@</6 0: ,4 6 <6,2@8 6411<9, 42:< < ,4</ 742/ <0: 2 6?@ > :,6 09 0: =0/B6 ?9></ ,4< 11<> 2,< 0/></6 0: ,4< C<7?G :< 0/ 66 6,29, 9 9<</6 0/ 2/< 266 9<> 0,4</ 63<7 : 7 >?, <6 90, 78</ 728 9 7099<7, 09 = ,4 ,4< <C<7?, 09 0: =0/B6 0/ = ,4 ,4< 9:<6, 2 09 0: 3/0F<7,6 ,4< @< 99 9 0:, 4< 0:: 7 28 5<2/ !!* !" ,4< 6297, 09<> 9? :,@</ 0: ,4< 33</ ?@0/> 92,< 6,2@8 6411<9, =26 !"

*++ 4< 0=</ ?@0/> 92,< 6,2@8 6411<9, 7096 6,6 0: 92, ;<6 =40 42:< 2 6?:: 7 <9, B90=8<> < 0: 0/> 92/5 @? 8> 9 29> 6?74 27N?2 9,297<= ,4 3829 >/2= 9 29> 6?/:<5 9 26 = 88 <92@8< ,4<1 ,0 6<, 0?, 29> 6?3</; 6<, ,4< 7096,/?7, 09 0: ,4< 1 90/ 78266 0: =0/B6 ?9></ ,2B<9 @5 ,4< ><32/,1<9, 4< 1<1@</6 0: ,4 6 <6,2@8 6411<9, 7096 6, 0: ,4< 78266 0: 6?@ 0;</6<</6 > ; ><> 9,0 ,4/<< /2><6

"&& 4< :: 7< 6,2@8 6411<9, 7096 6,6 0: ,4< 78</B6 29> >/2: 61<9 <9 2 <> 09 3?/<85 78</ 728 >?, <6 ,0 <,4</ = ,4 ,4< 9:</ 0/ 6</; 29,6 <13805<> 9 0:: 7<6 4< <6,2@8 6411<9, 0: 78</B6 6 > ; ><> 9,0 : :< 78< 66<6 0: 4 74 ,4< : /6 :0?/ 78266<6 2/< 6?@ > ; ><> 9,0 ,4/<< /2><6 29> ,4< : :,4 78266 9,0 ,=0 /2><6E =4 8< ,4< >/2:,61<9 2/< > ; ><> 9,0 ,4/<< 78266<6

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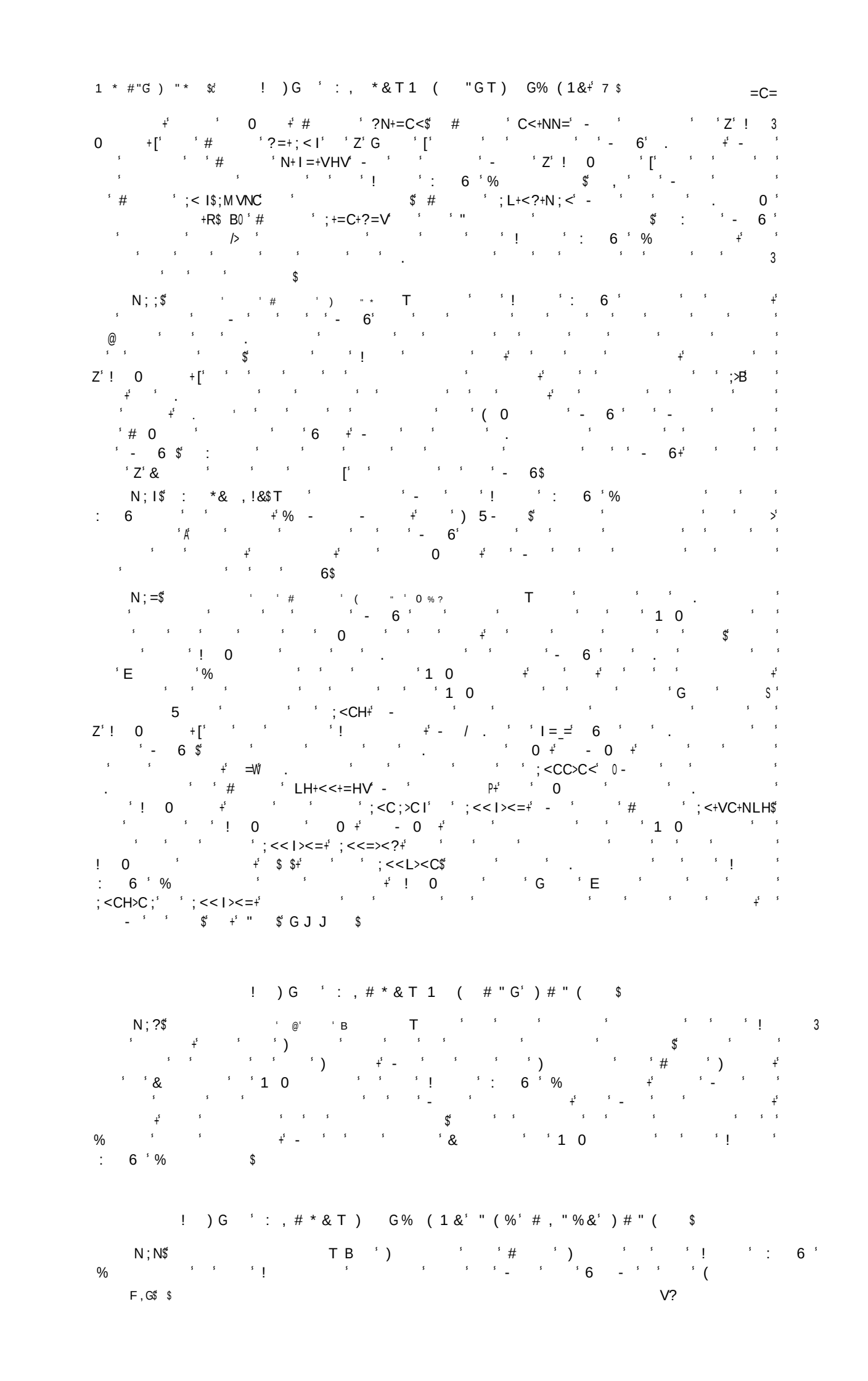
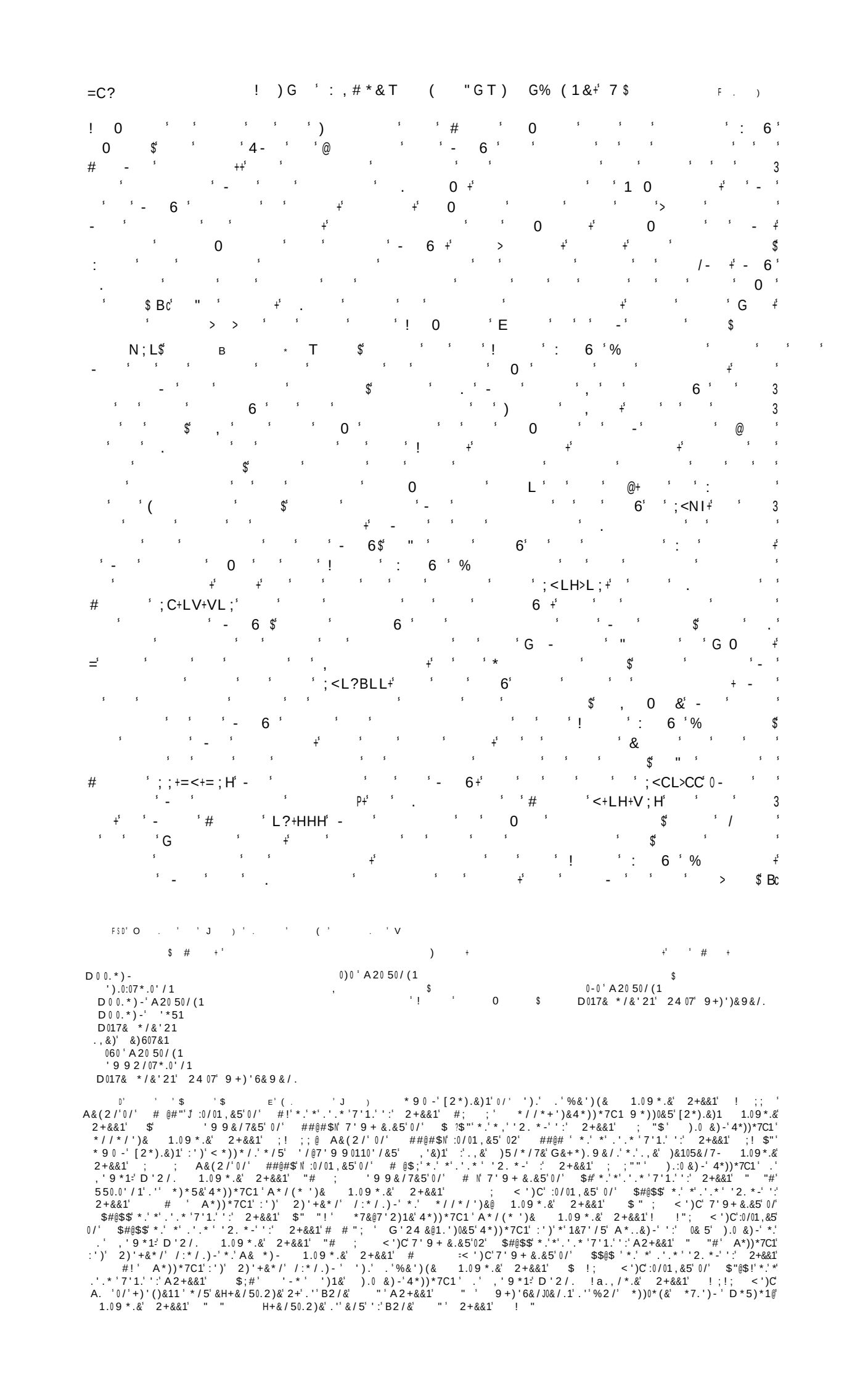
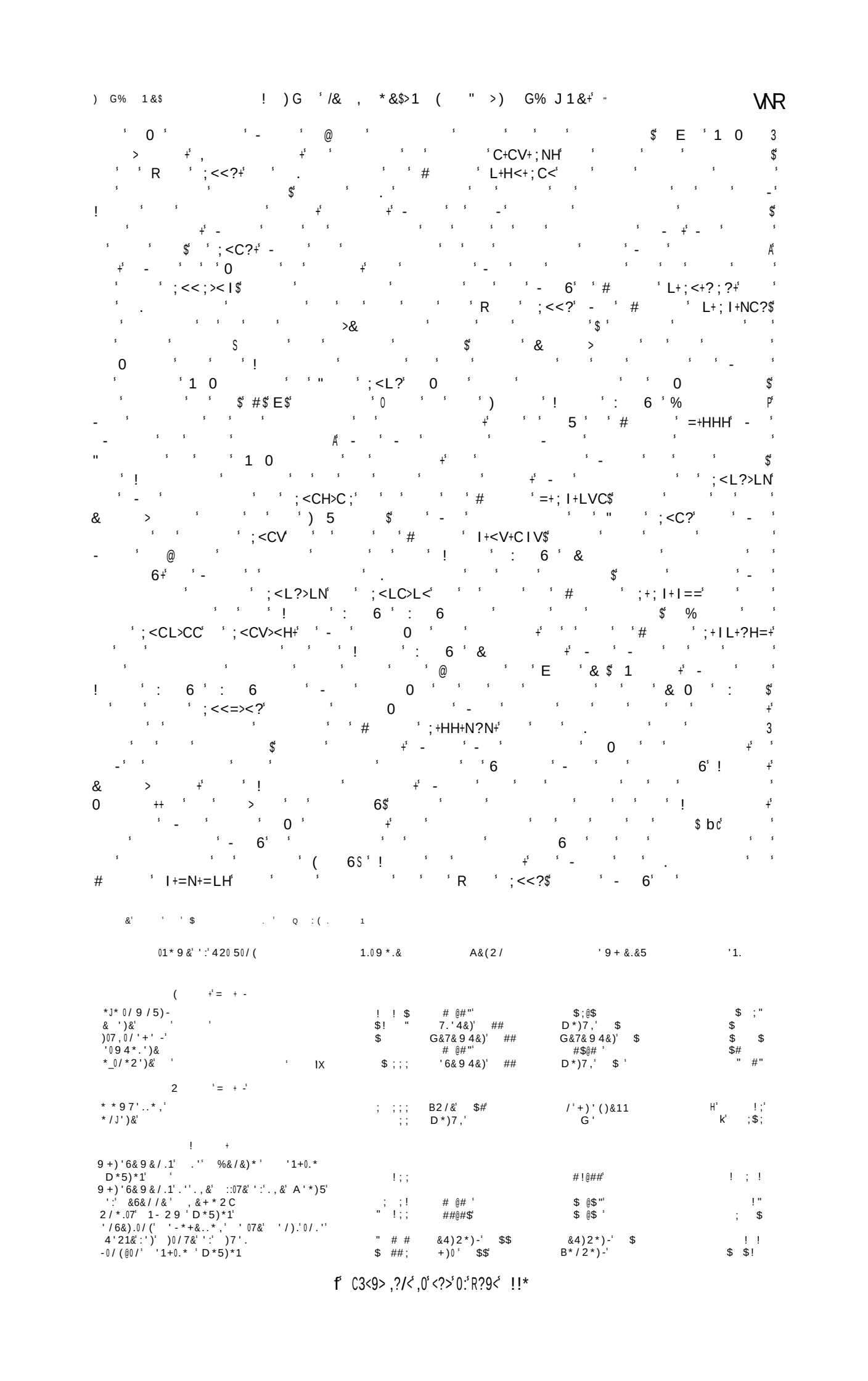
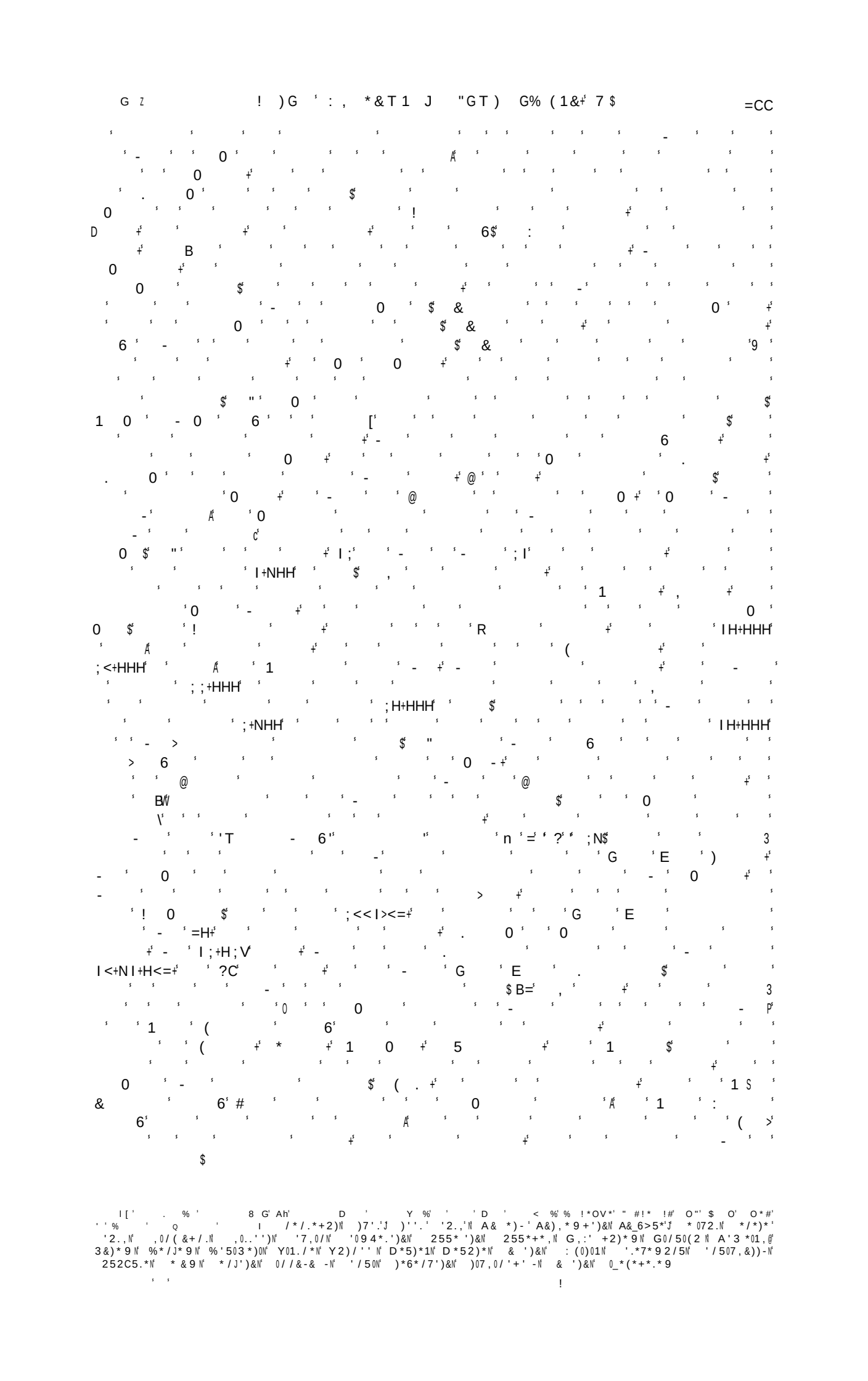
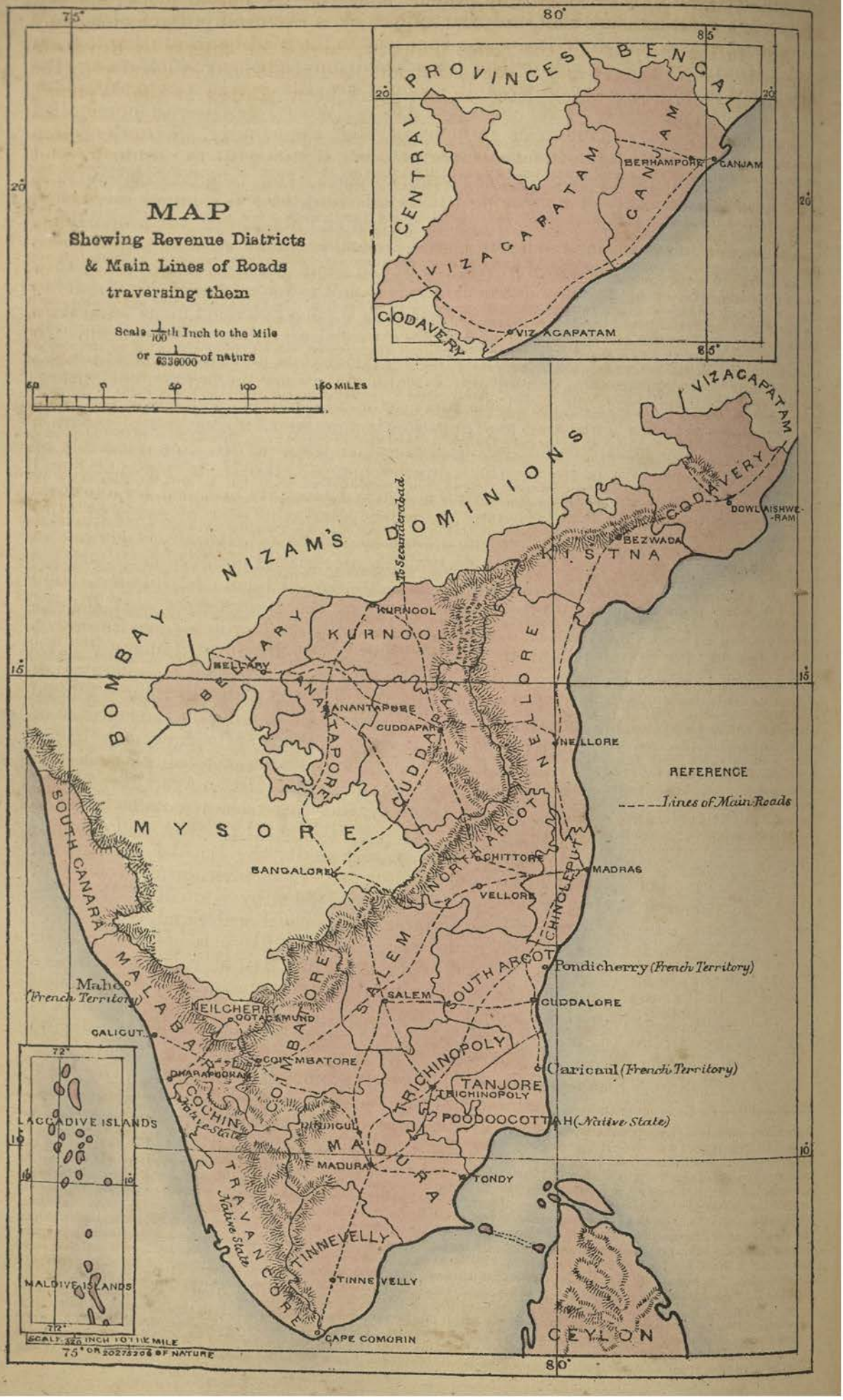
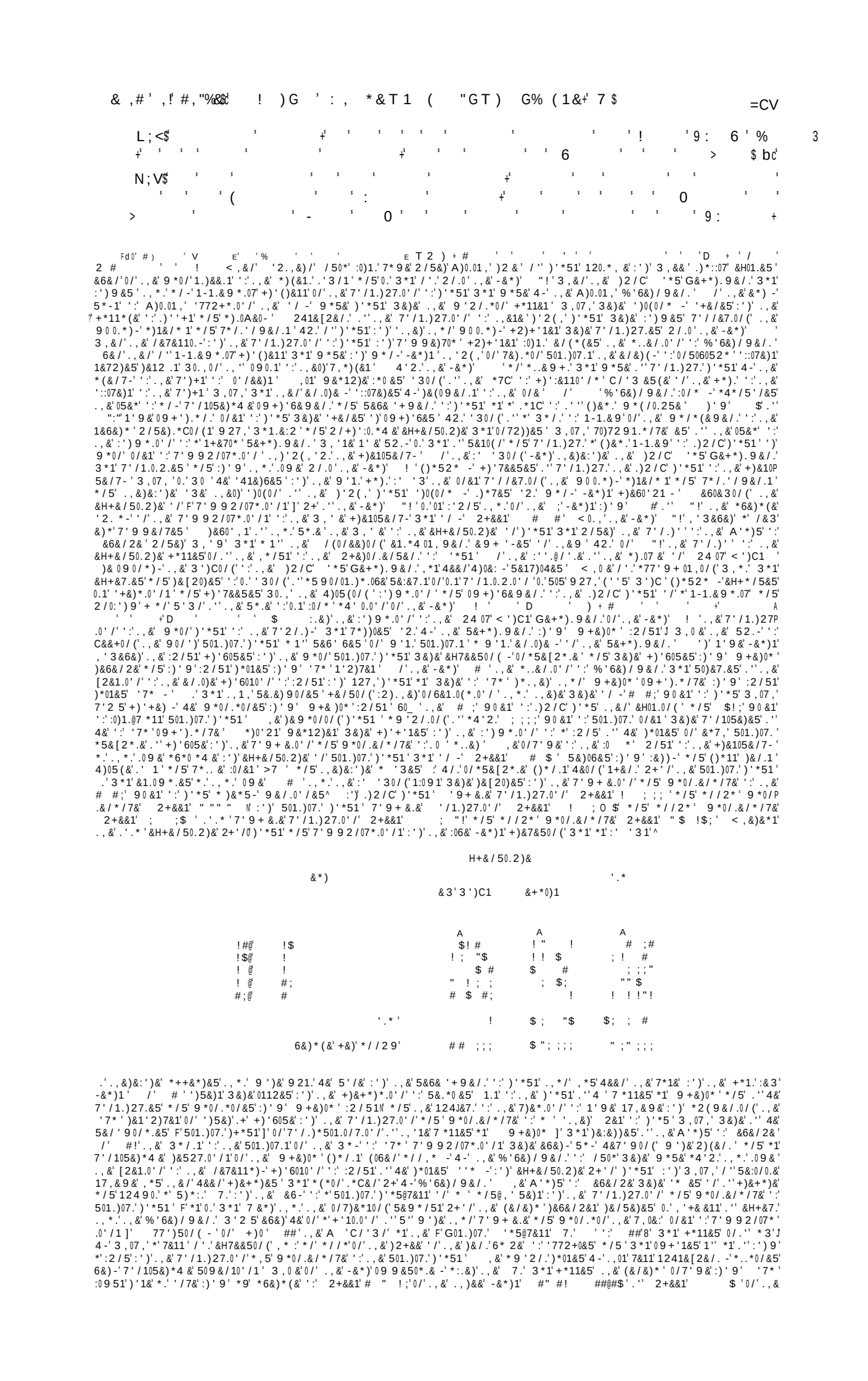


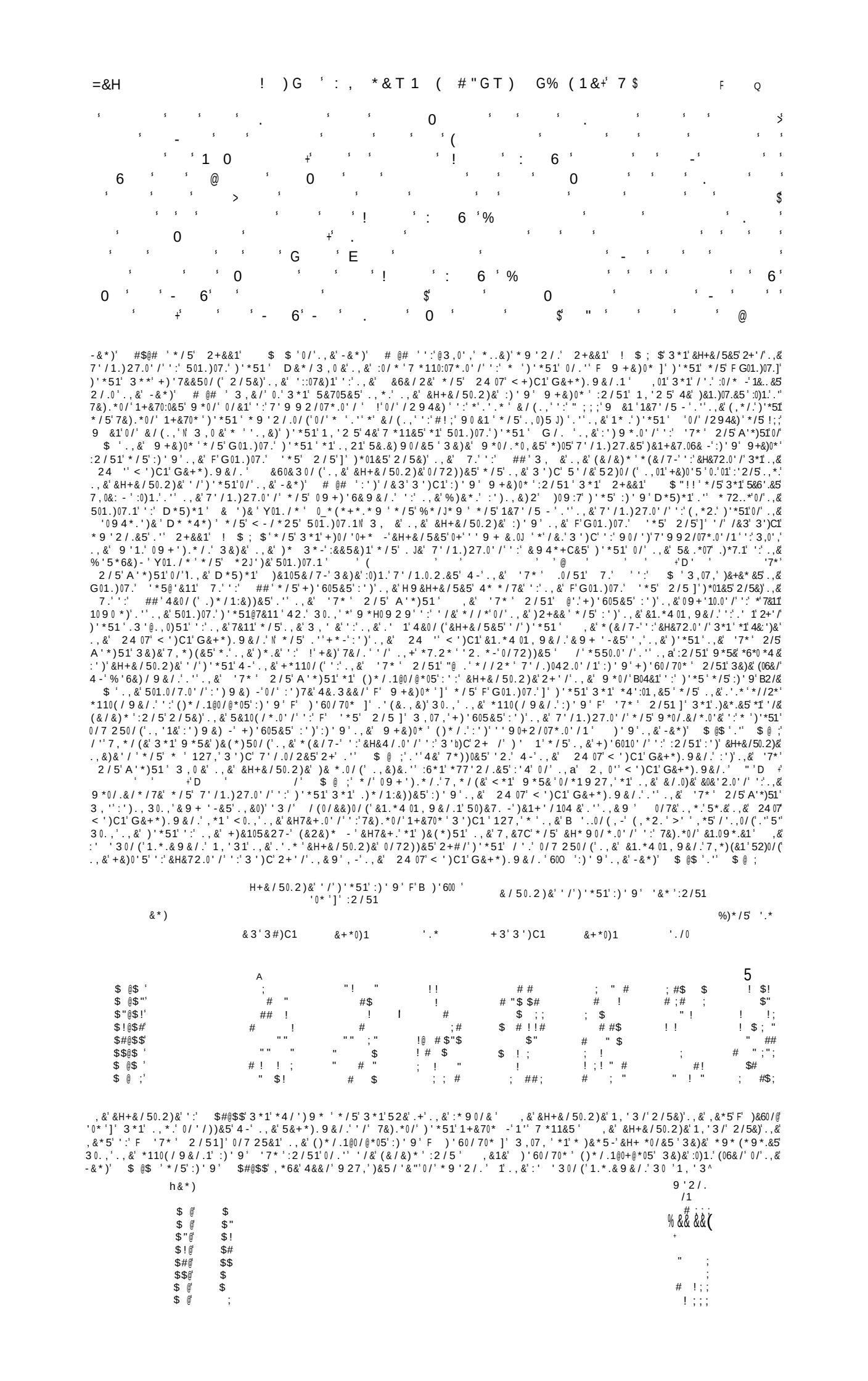


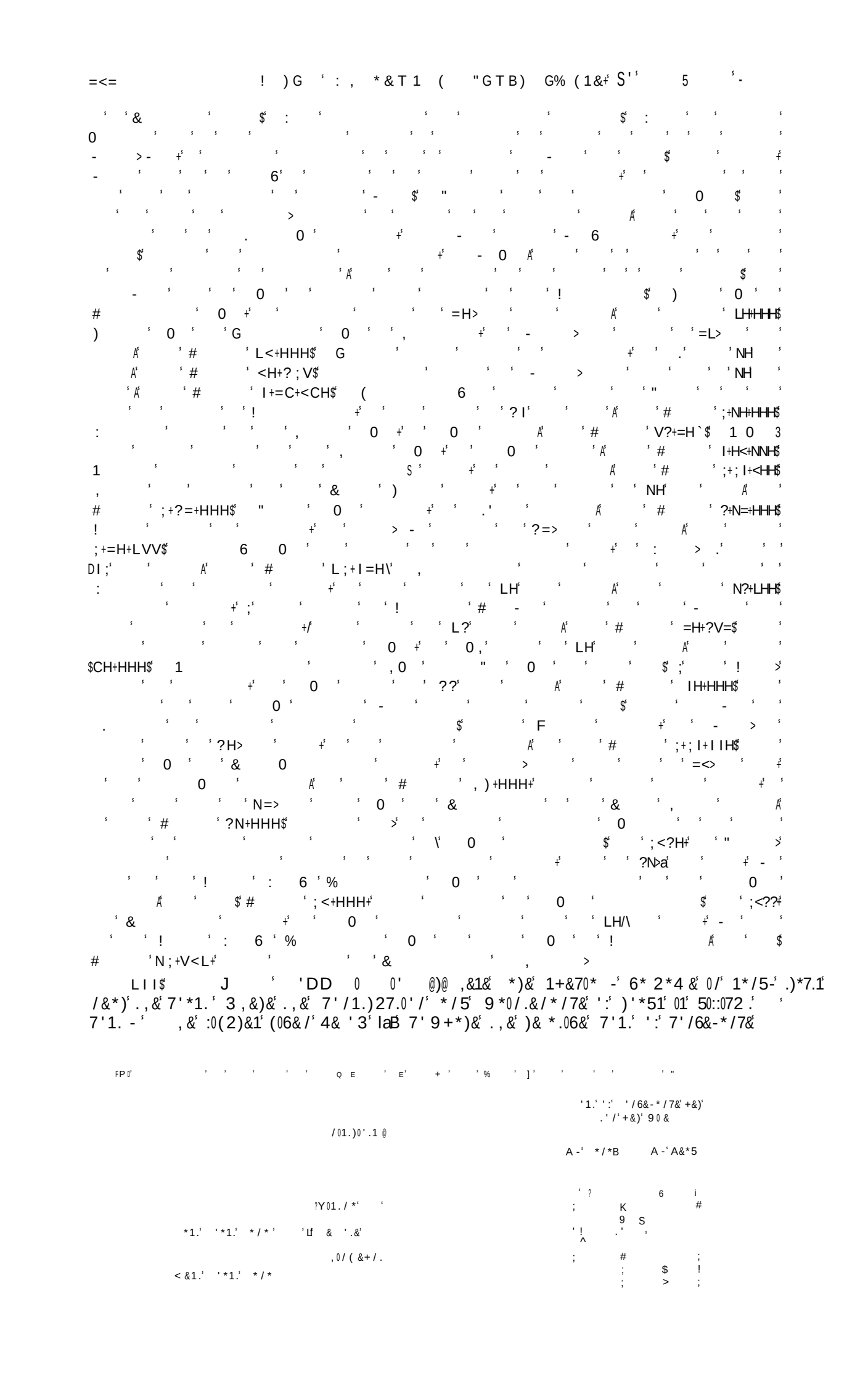


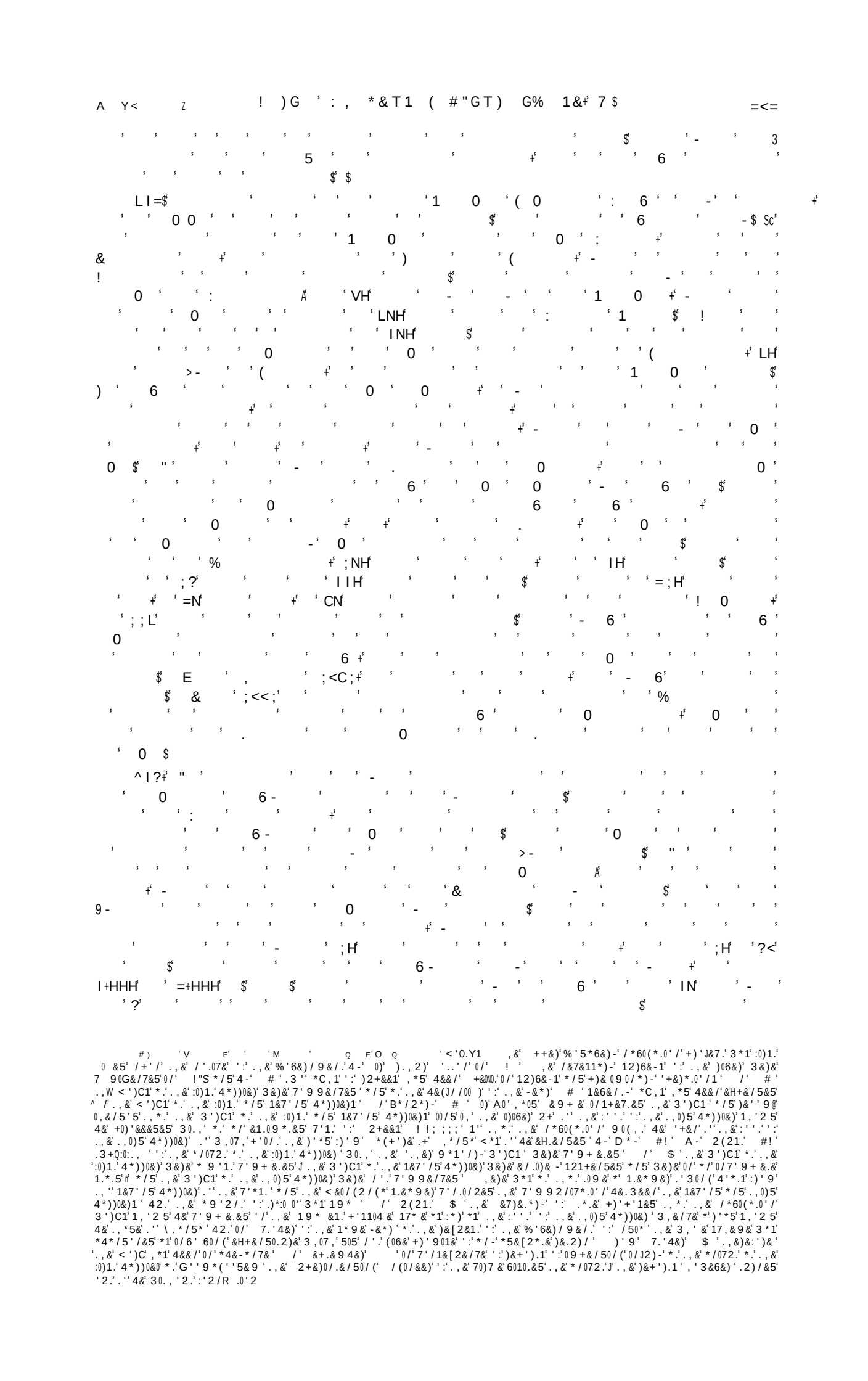


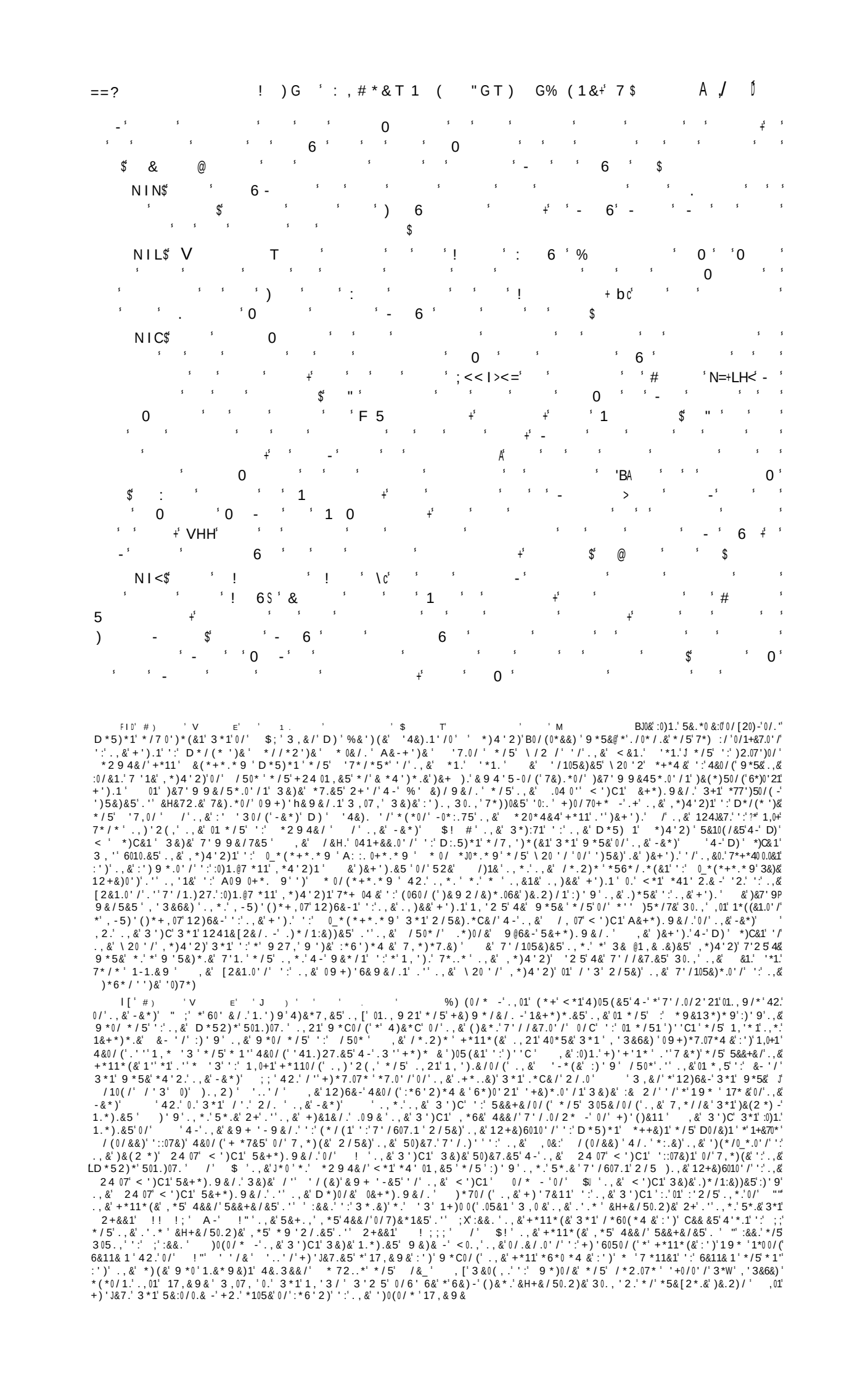

MAP
Showing Revenue Districts
& Main Lines of Roads
traversing them
Scale 1/100th Inch to the Mile
or 1/63360 of nature
50 0 50 100 150 MILES
CENTRAL PROVINCES
BENGAL
VIZAGAPATAM
CANJAM
BERHAMPORE
GANJAM
GODAVERY
VIZAGAPATAM
BOMBAY
NIZAM'S DOMINIONS
To Secunderabad
VIZAGAPATAM
GODAVERY
DOWLAISHWE-RAM
BEZWADA
KISTNA
KURNOOL
BELLARY
KURNOOL
BELLARY
ANANTAPORE
CUDDAPAH
NELLORE
REFERENCE
Lines of Main Roads
MYSORE
BANGALORE
CHITTORE
MADRAS
VELLORE
SOUTH CANARA
MALABAR
COIMBATORE
SALEM
NORTH ARCOT
CHINGLEPUT
Pondicherry (French Territory)
Mahé (French Territory)
NEILCHERRY
SALEM
SOUTH ARCOT
CUDDALORE
CALICUT
COIMBATORE
TRICHINOPOLY
Caricaul (French Territory)
DHARAPORAM
TANJORE
TRICHINOPOLY
COCHIN
POODOOCOTTAH (Native State)
LACCADIVE ISLANDS
MADURA
TONDY
TRAVANCORE
TINNEVELLY
MALDIVE ISLANDS
CAPE COMORIN
CEYLON
SCALE 1/25 INCH TO THE MILE
75° OR 2027520 OF NATURE

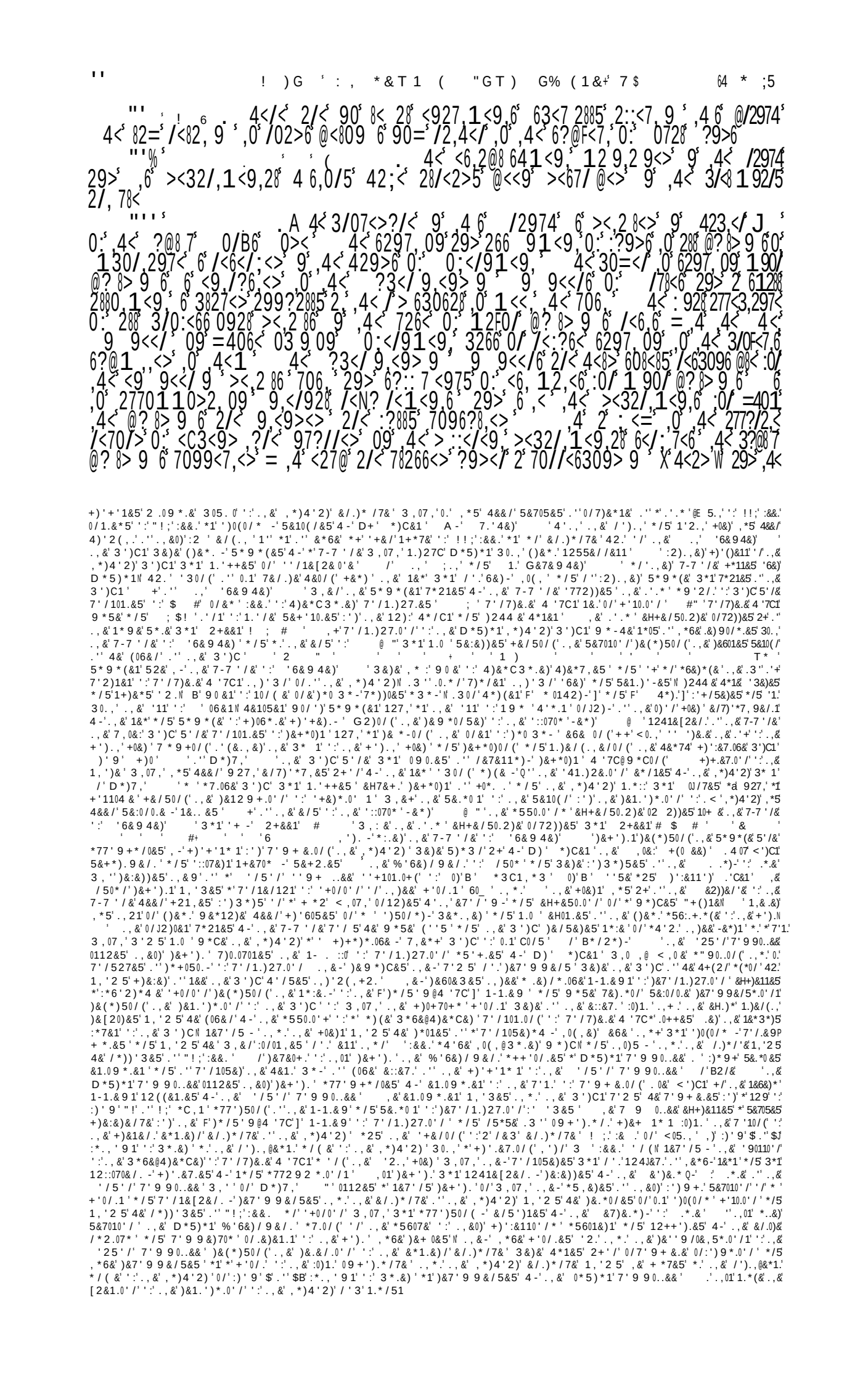


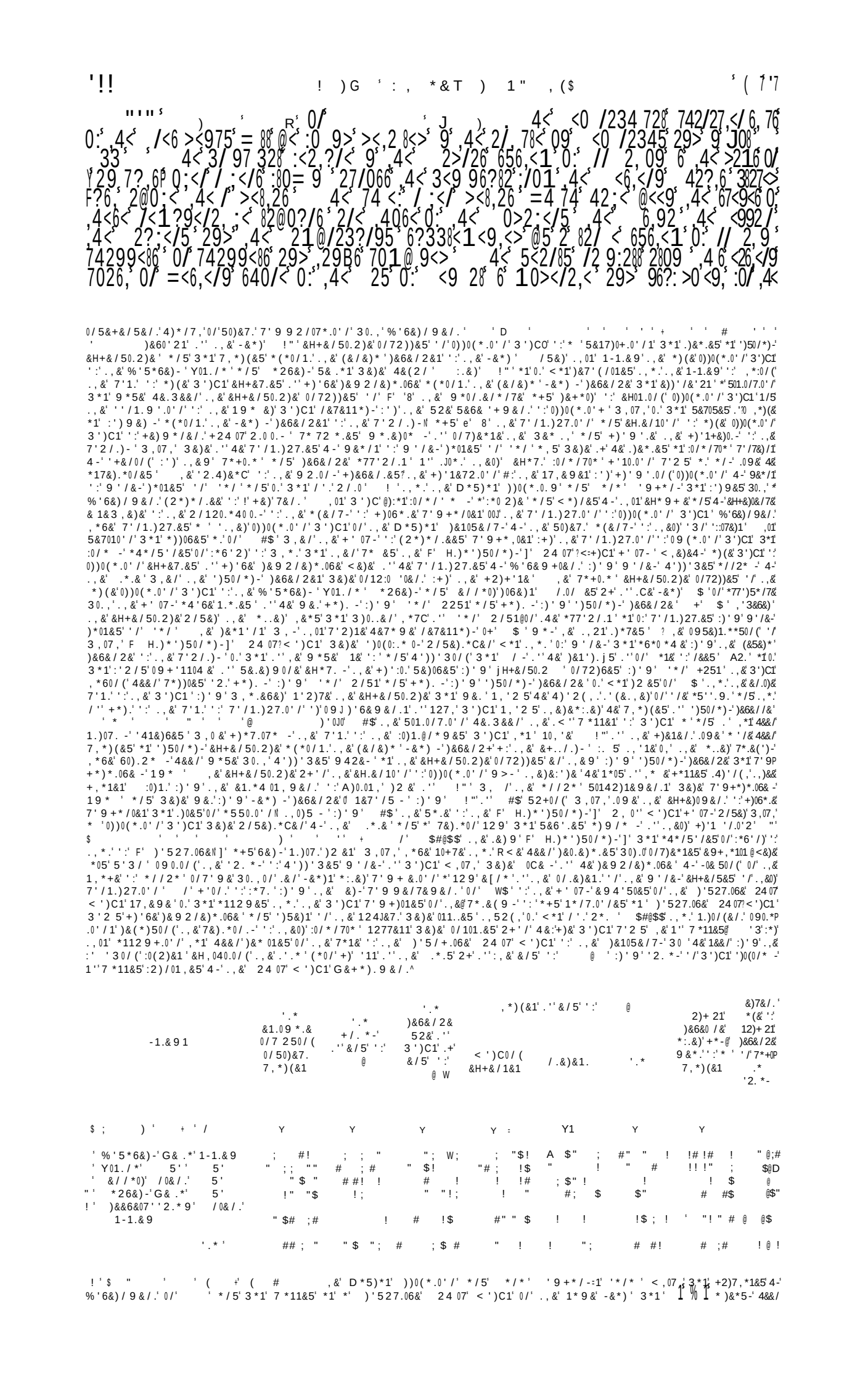


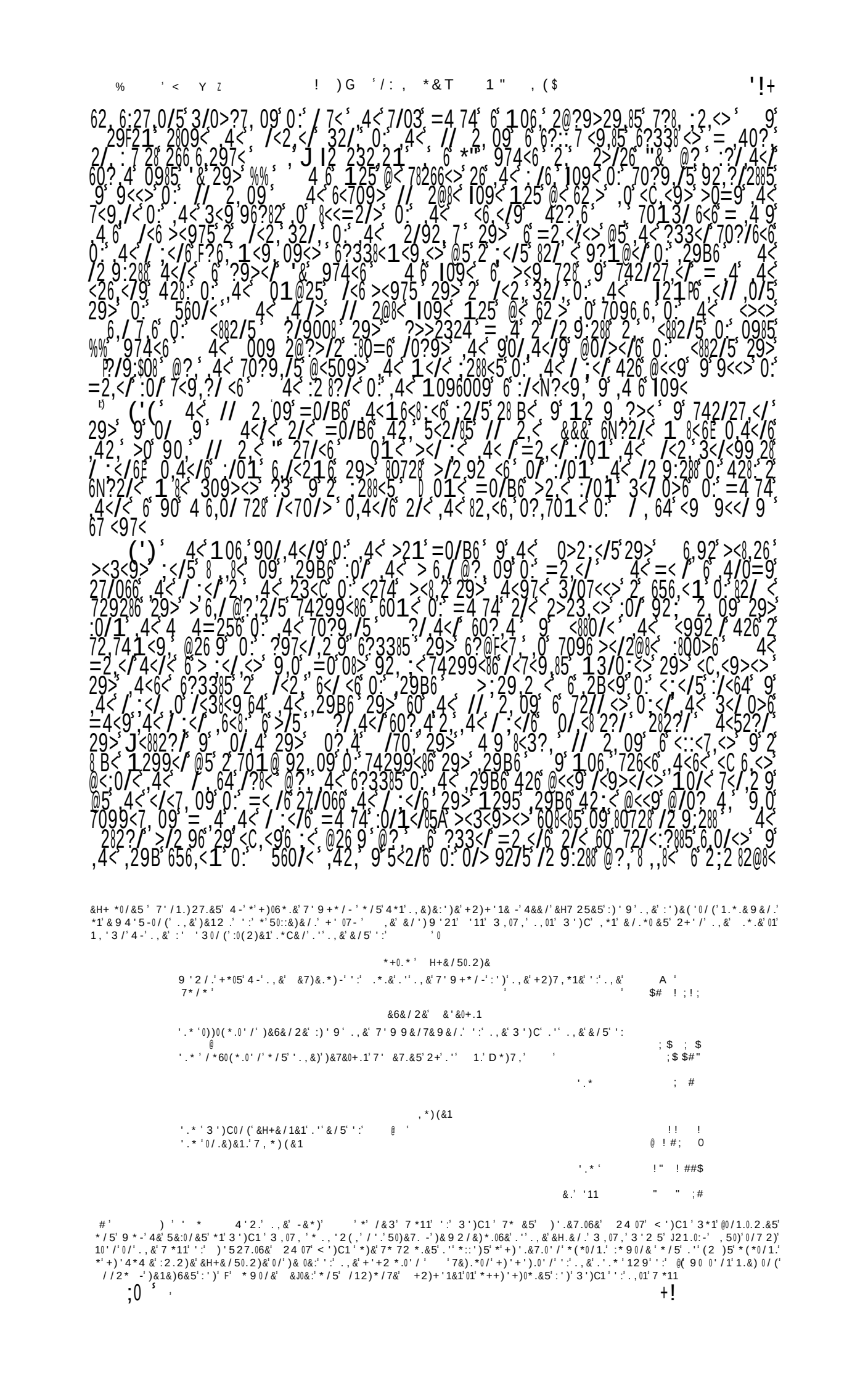


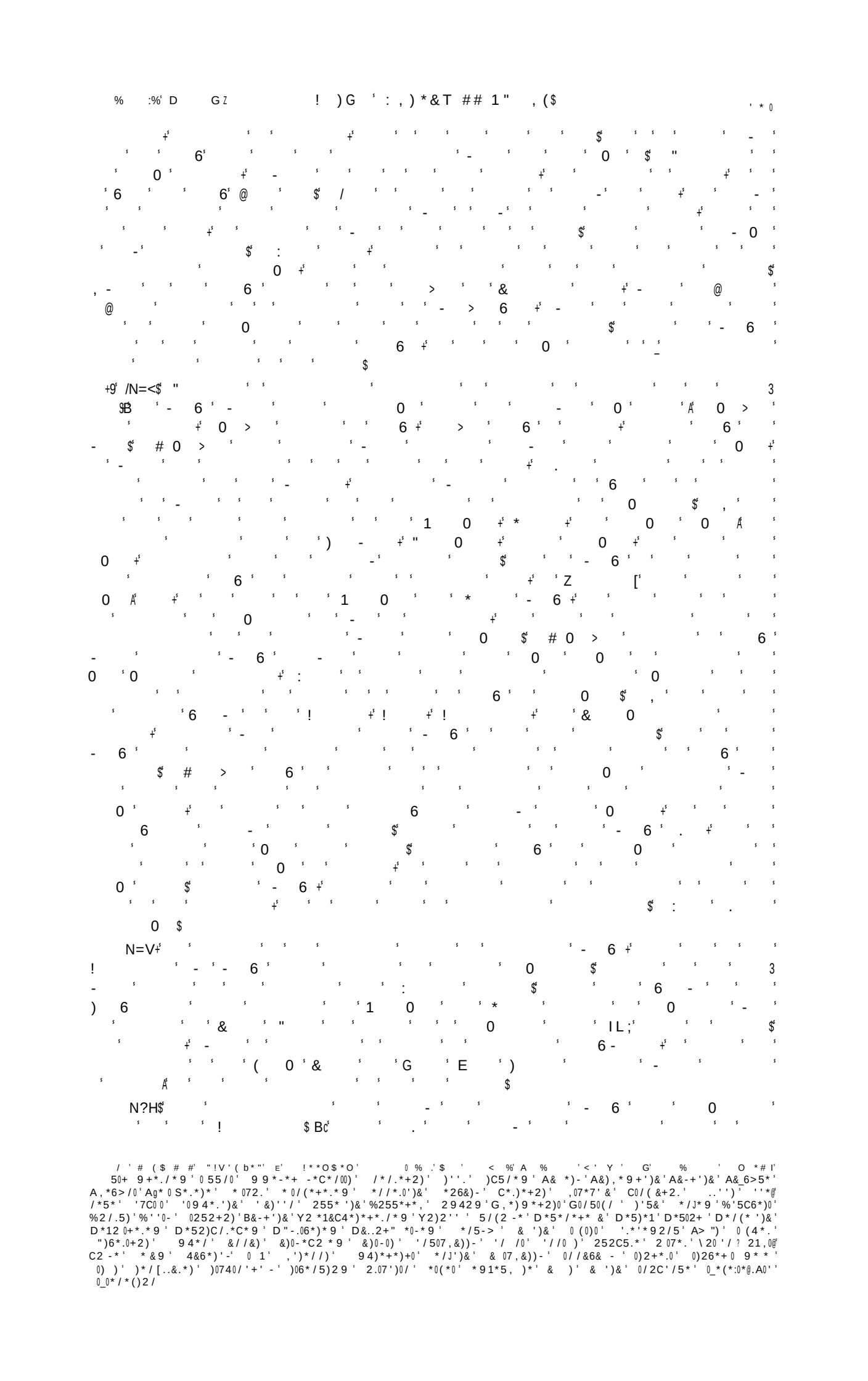






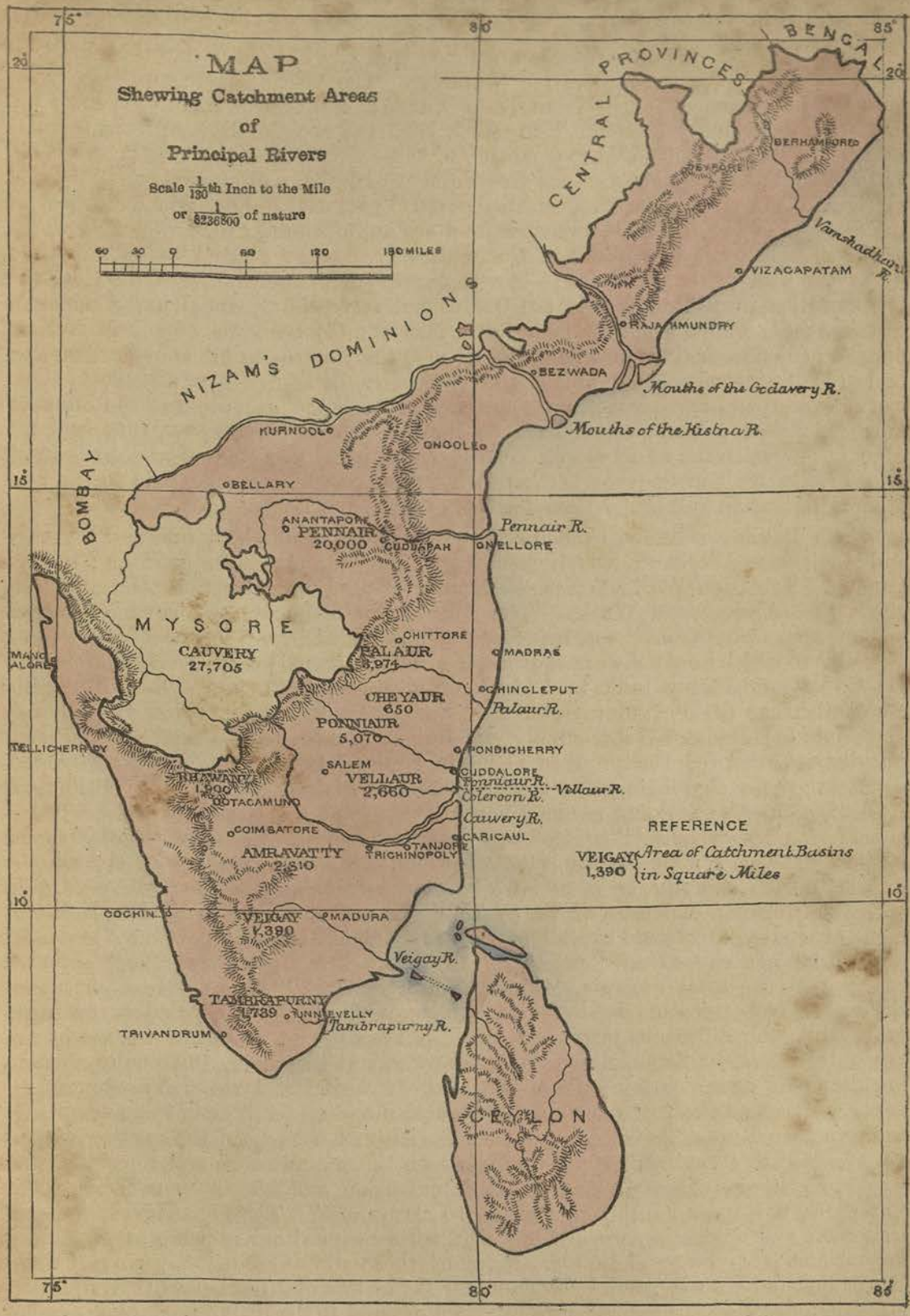




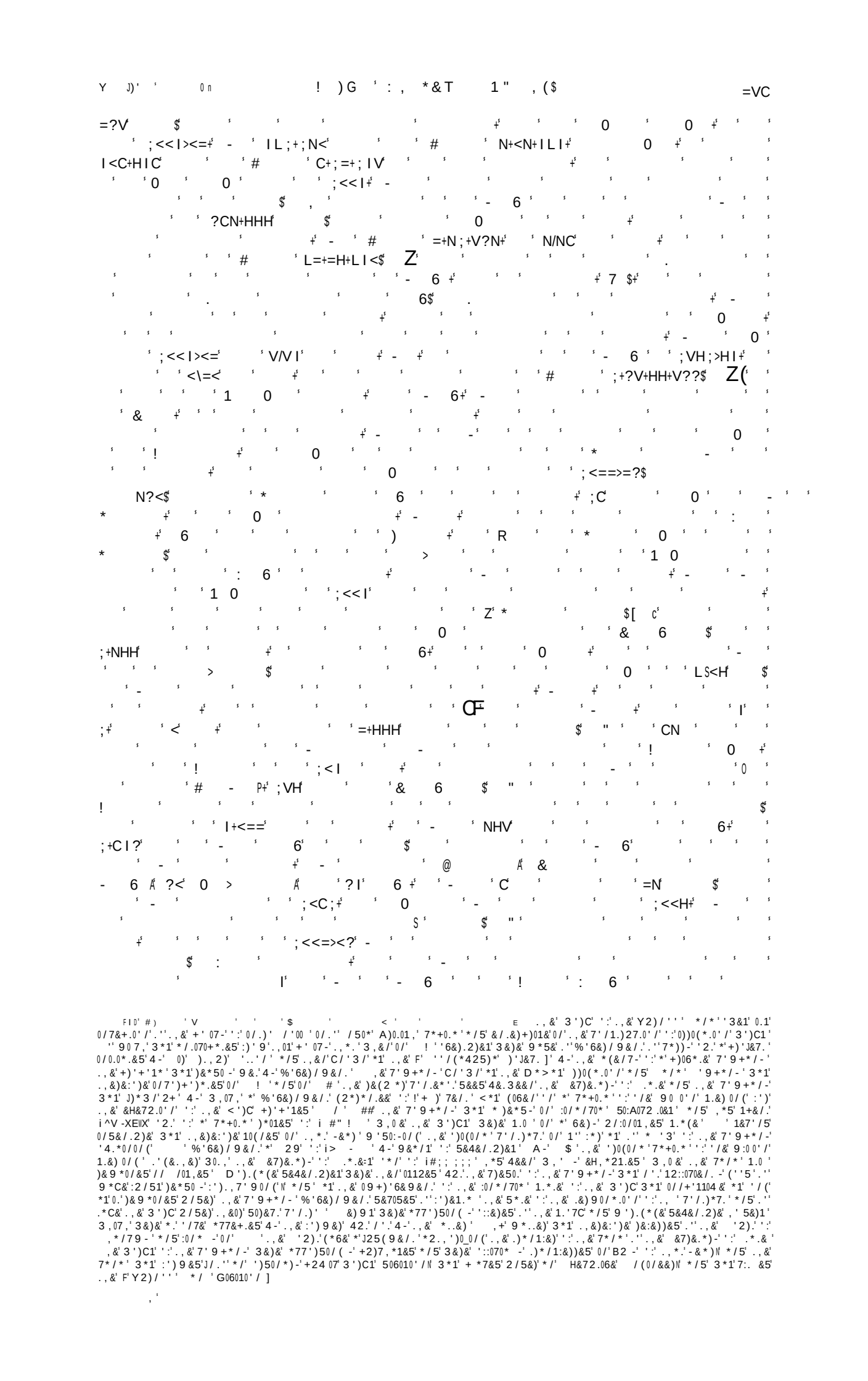


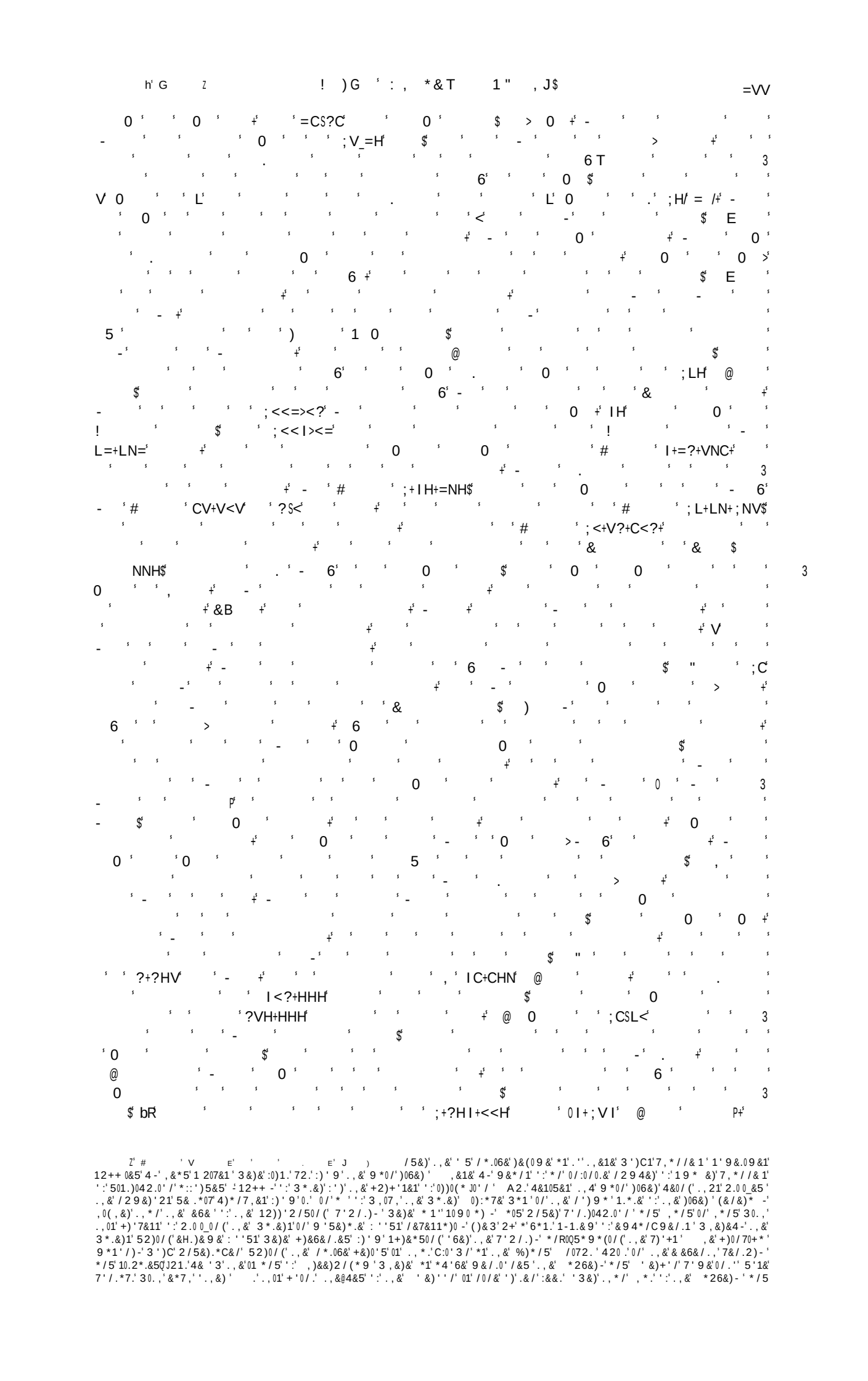
MAP
Shewing Irrigation Works & Navigation Canals
Scale 1/100 th Inch to the Mile
or 1/5336000 of nature
50 0 50 100 150 Miles
CENTRAL PROVINCES
BENGAL
BOMBADOLA
BERHAMPORE
Rooshcoolya R.
CHETTERPORE
GOPALPORE
JEYPORE
PARVATIPORE
CHICACOLE
CALINGAPATAM
Vamshadhara R.
Langoolya R.
VIZIANAGRAM
BIMLIPATAM
VIZAGAPATAM
GODAVERY
BOMBAY
NIZAM'S DOMINIONS
VIZAGAPATAM
COCANADA
BEZWADA
Mouths of the Godavery R.
MASULIPATAM
Mouths of the Kistna R.
GOONTOOR
VINOOCONDA
KURNOOL
ADONY
NUNDIAUL
UMBUM
BELLARY
GOOTY
ANANTAPORE
CUDDAPAH
RENIGUNTA
PULICAT
MADRAS
CHITTORE
ARCONUM
VELLORE
CHINGLEPUT
Pennaur R.
Palaur R.
MADRANTACAM
DHARMAPOORY
TRINOMALLEE
LOODOORAM
SHEVAROY HILLS
SALEM
CUDDALORE
PONDICHERRY
Pennaur R.
Vellaur R.
Coleroon R.
ERODE
CANNANORE
TELLICHERRY
CALICUT
BEYPORE
COIMBATORE
TRICHINOPOLY
MAYAVARAM
TRANQUEBAR
CARICAUL
TANJORE
TIROOR
SHERNAUD
PALGHAUT
COCHIN
ADIRAMPUTNAM
DINDIGUL
TUTTAR
PERIYACOOL
AMMAYANAYAKANOOR
MADURA
Cauvery R.
Veigay R.
PAUMBEN
QUILON
TINNEVELLY
TUTICORIN
Tambrapurny R.
TRIVANDRUM
KOOLASHEKHARAPATNAM
CAPE COMORIN
CEYLON
LACCADIVE ISLANDS
MALDIVE ISLANDS
Ponnany R.
Periyaur R.
SCALE 320 TH INCH TO THE MILE OR 1/20275200 OF NATURE
REFERENCE
PRODUCTIVE PUBLIC WORKS
I Godavery Delta System
II Kistna do
III Kurnool Canal
IV Sungam Anicut
V Pennair do.
VI Cauvery Delta System
VII Sreeraicoontam Anicut System
IRRIGATION & NAVIGATION WORKS, FOR WHICH CAPITAL & REV. ACCOUNTS ARE KEPT BUT NOT CLASSED AS PRODUCTIVE
1 Chembrambaukum Tank
2 Palaur Anicut
3 Polaudoray Anicut
4 Madras Water Supply, & Irri: Extension Project
5 Buckingham Canal
PROTECTIVE WORKS
A. Rooshcoolya Project
PROJECTS
a Baroor Project
b Periyaur do.

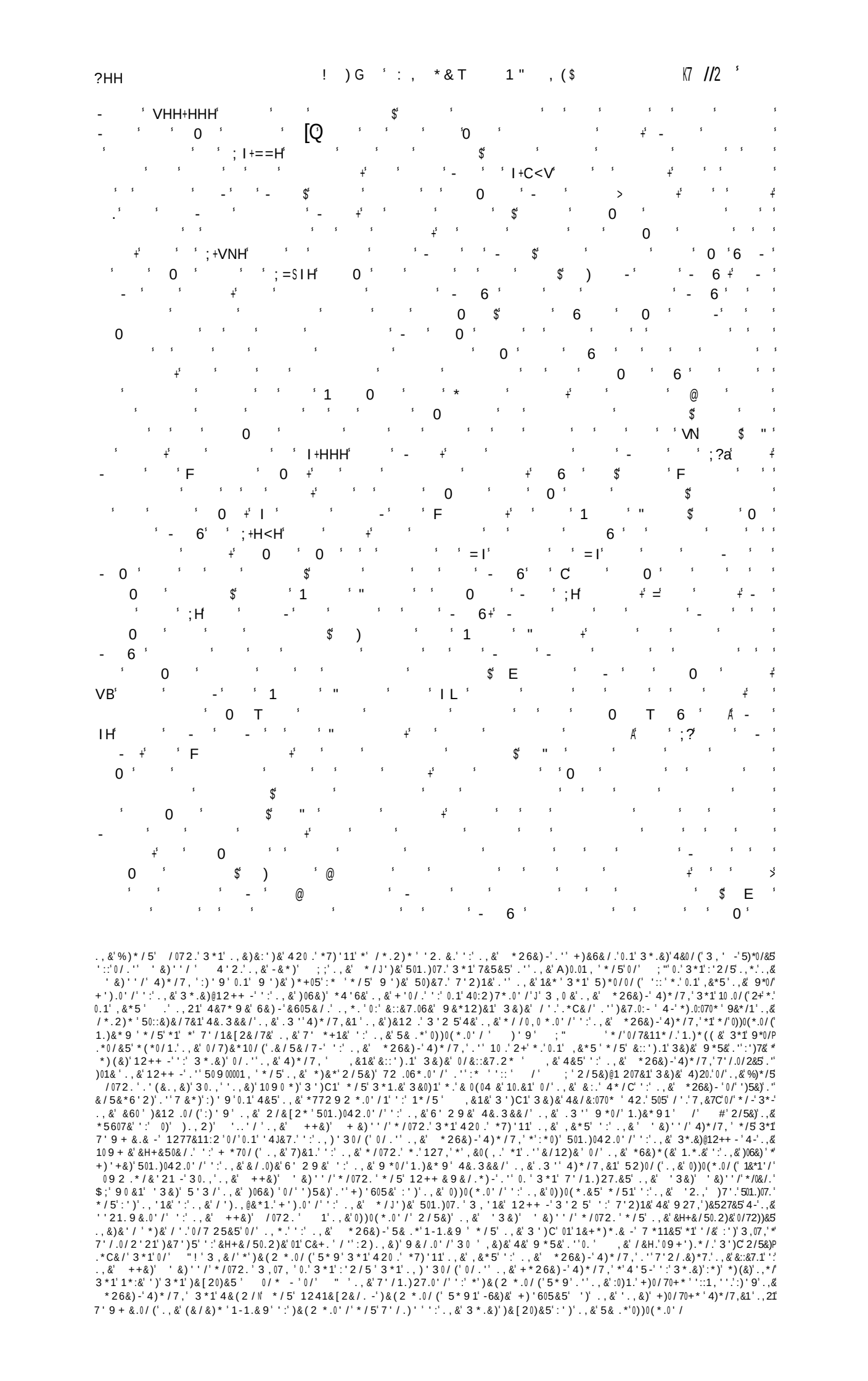
principal rivers.[3] The more important irrigation works will be described in greater detail ranged under their technical headings.

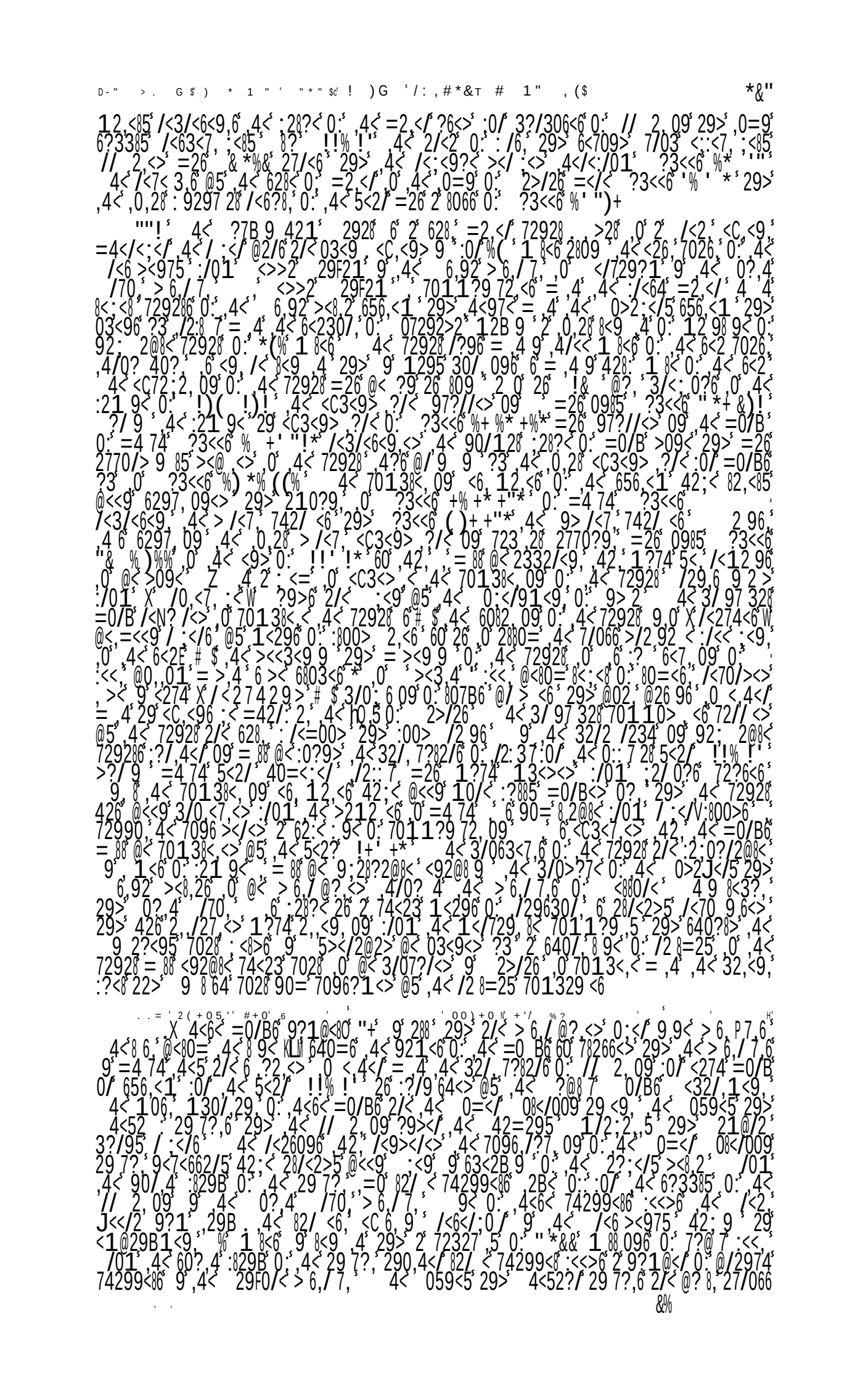


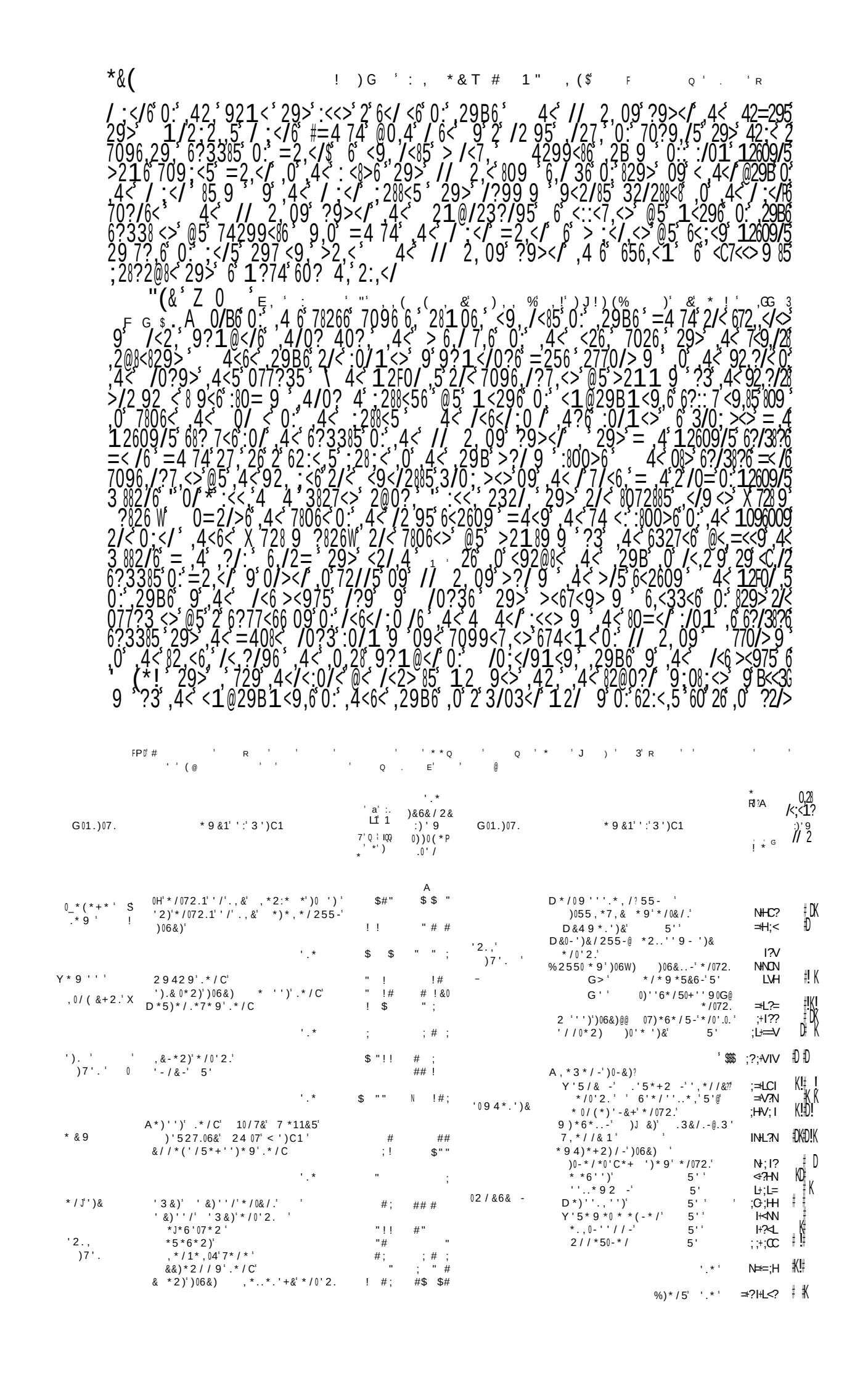
[3] Spellings authorized by Government occurring in Map showing Catchment Areas of Principal Rivers.*—Amarávati, Anantapur, Bellary, Bezváda, Bhaváni, Cauvery, Cheyár, Chingleput, Chittoor, Cochin, Coimbatore, Coleroon, Cuddalore, Cuddapah, Godávari, Jeypore, Kistna, Kurnool, Madras, Madura, Mangalore, Nellore, Ongole, Ootacamund, Pálár, Pennér, Pondicherry, Ponniár, Salem, Támbraparni, Tanjore, Tellicherry, Tinnevelly, Trichinopoly, Trivandrum, Vaigai, Vamsadhára, Vellár, Vizagapatam.

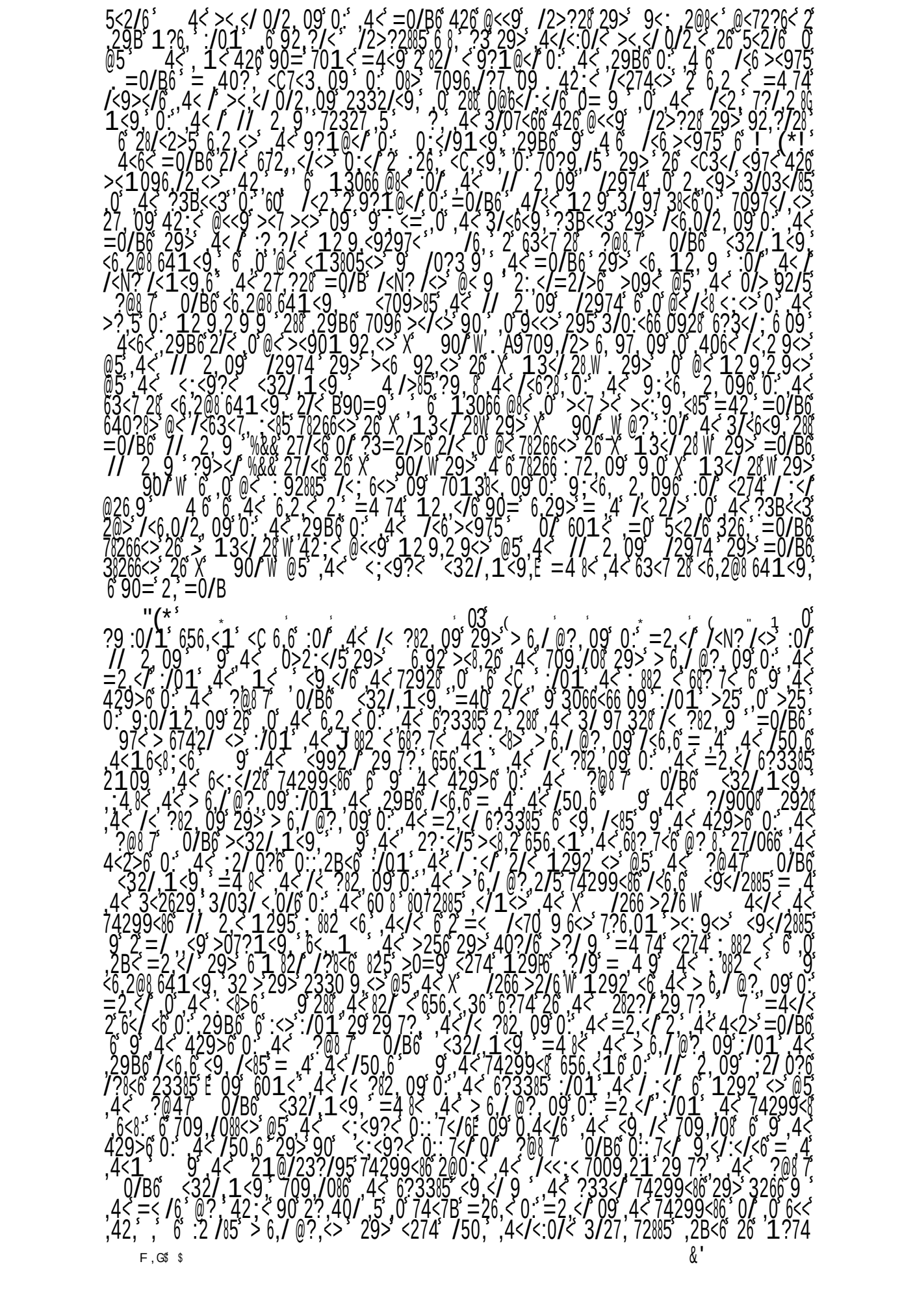


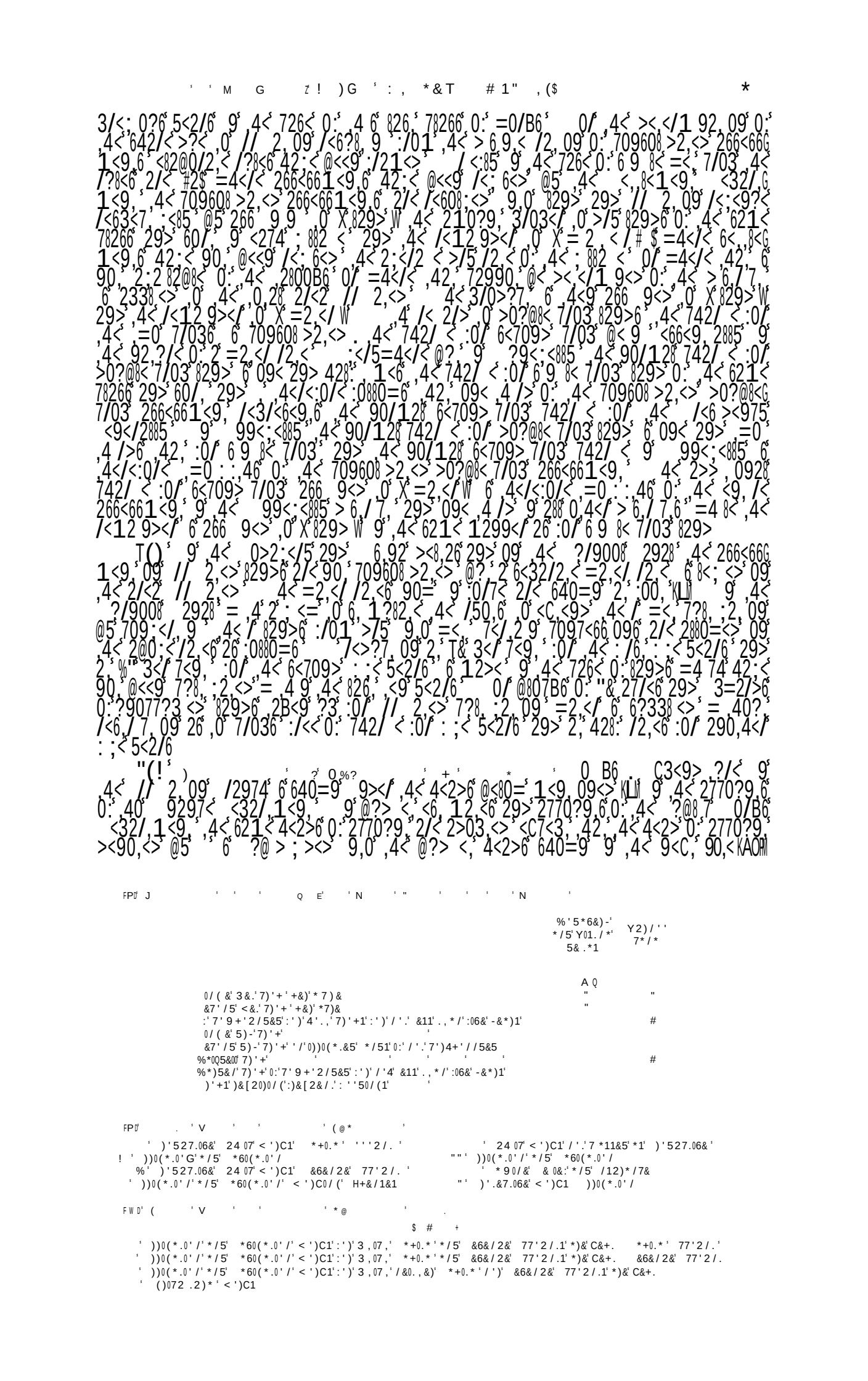


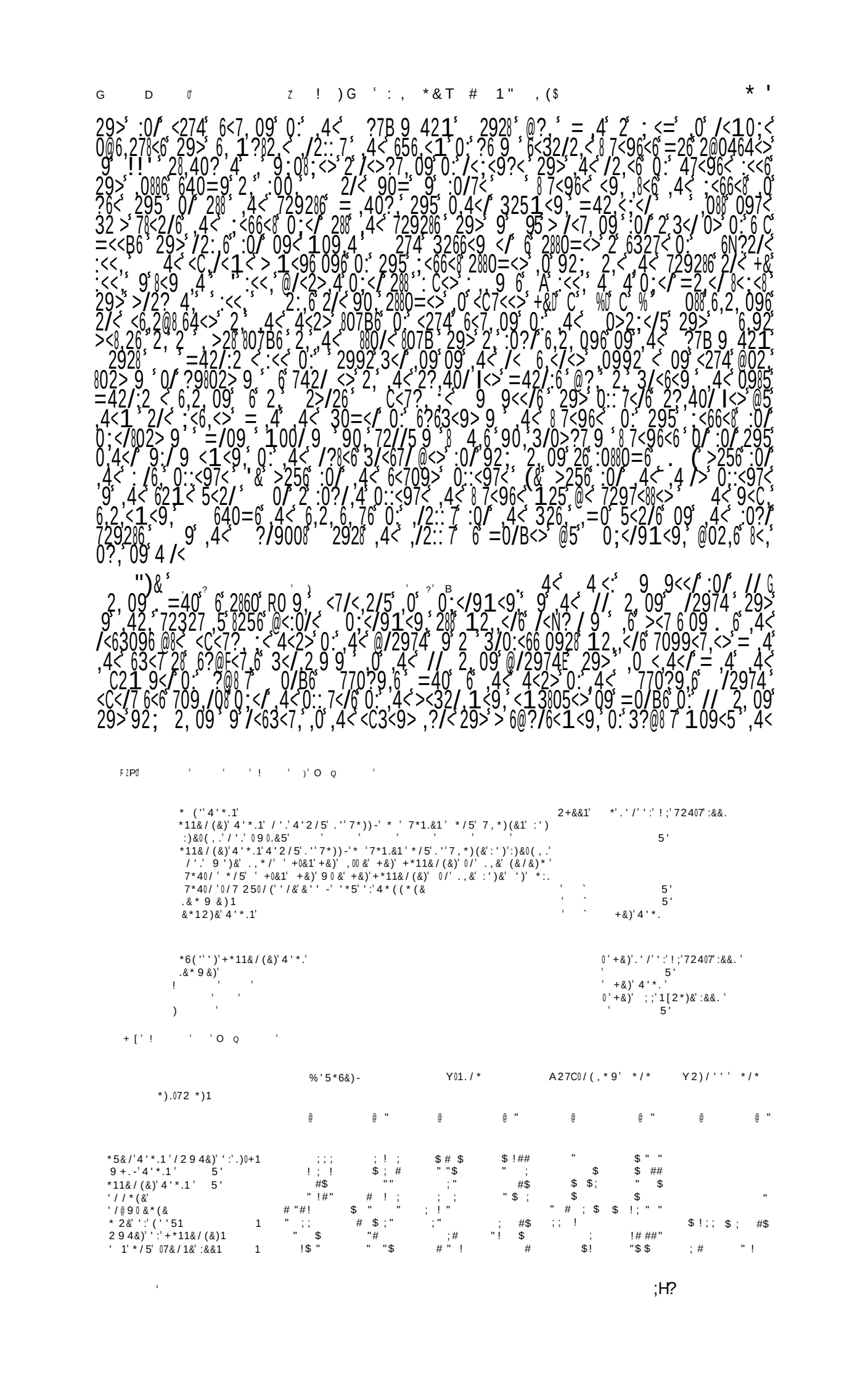


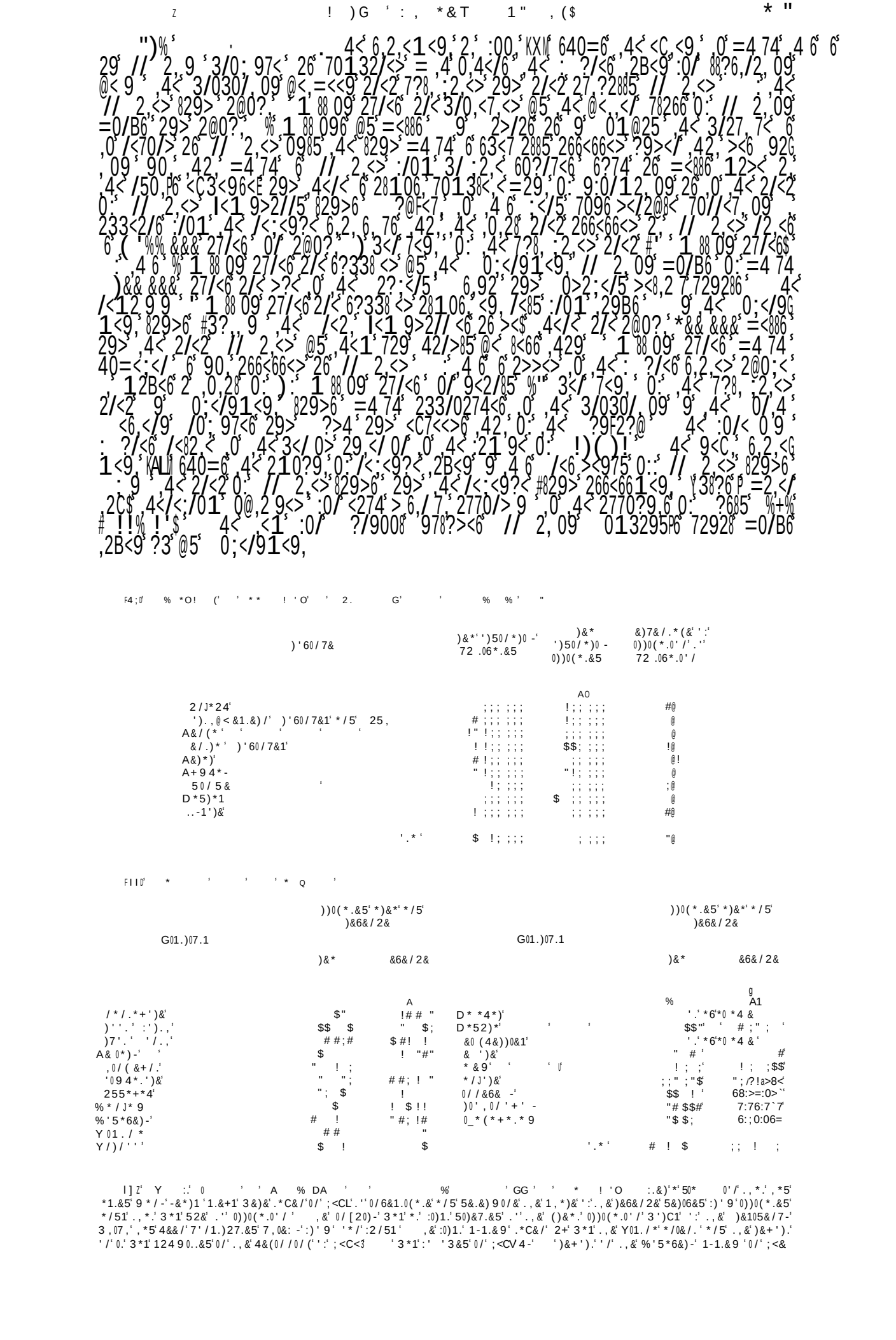


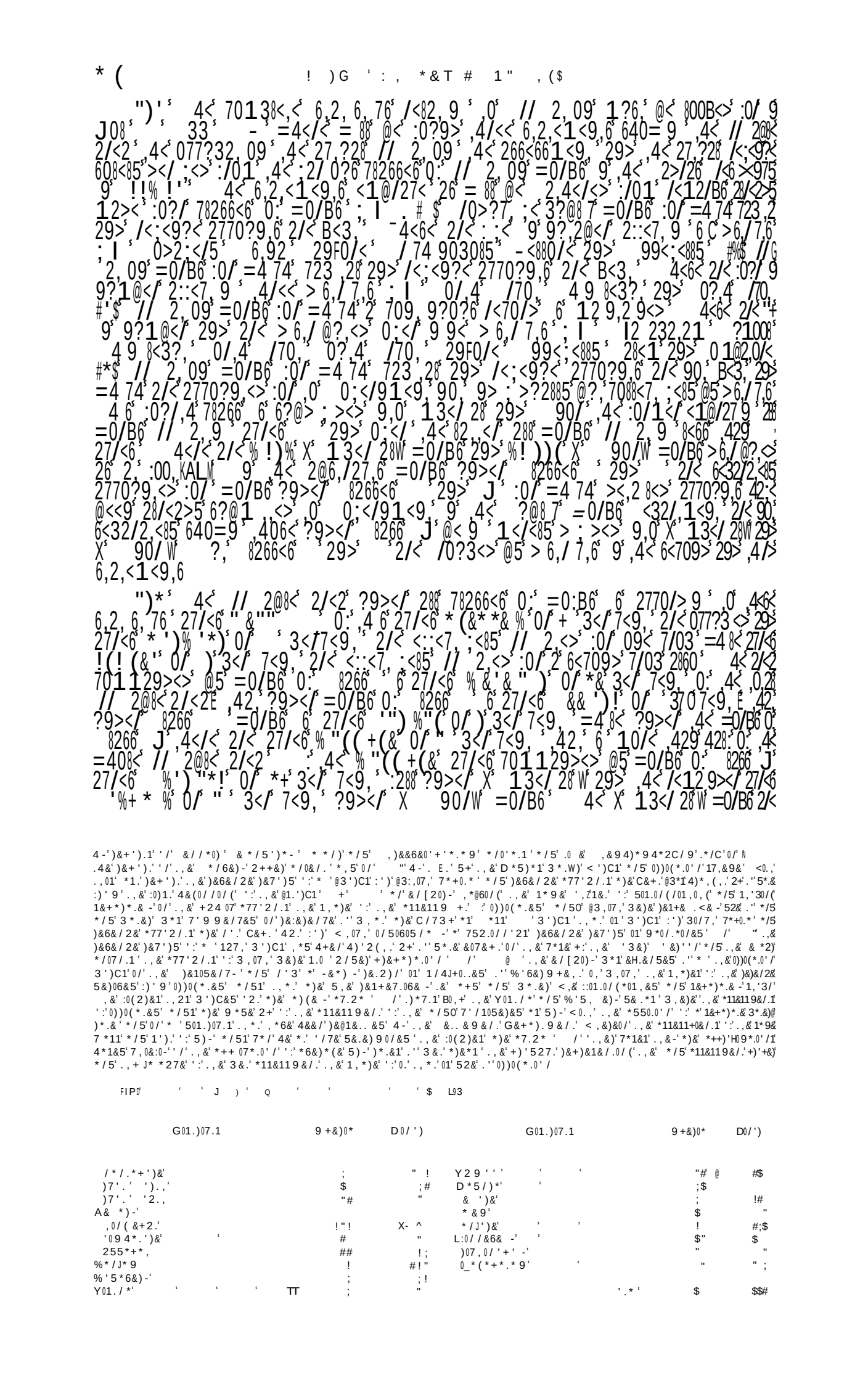


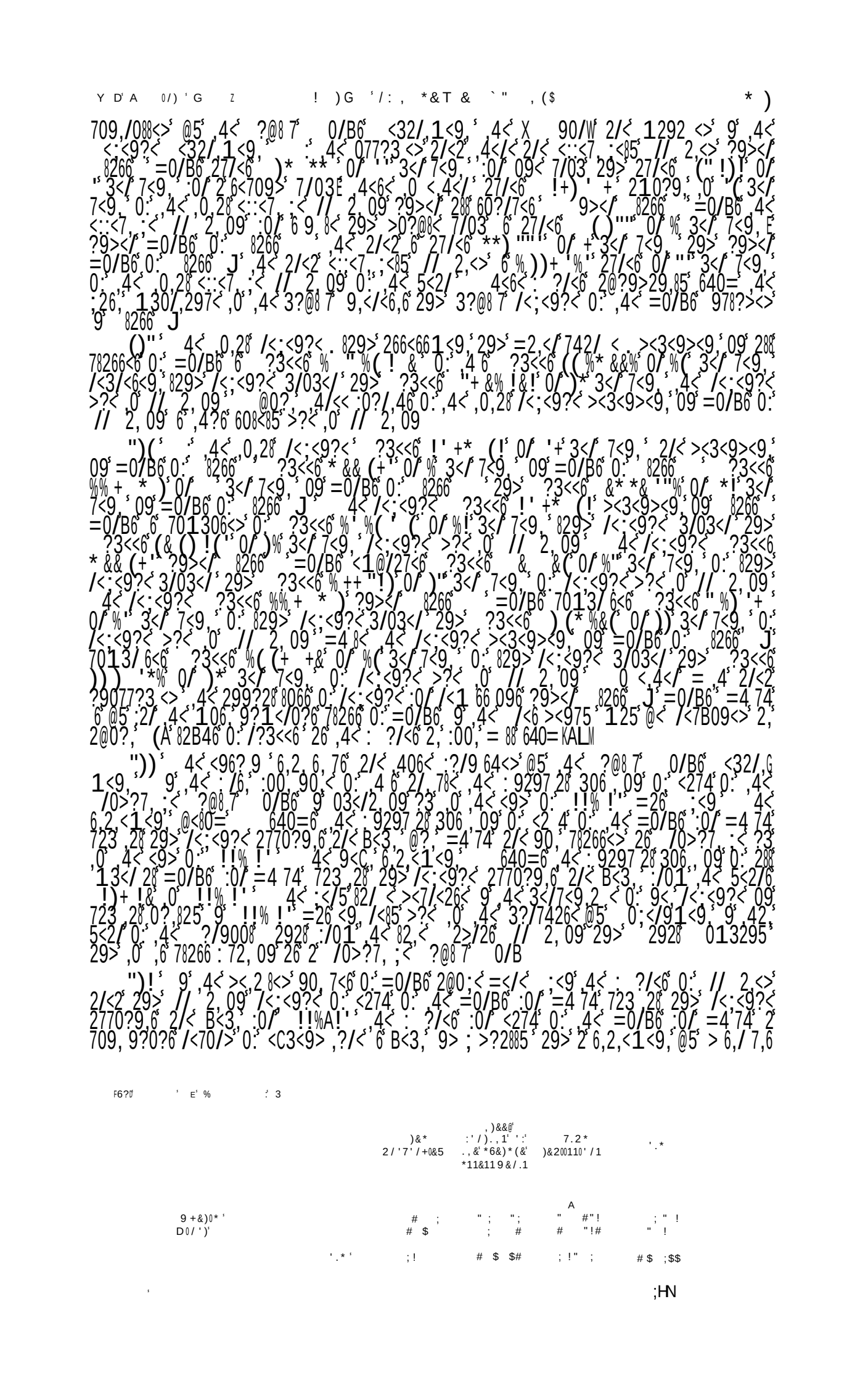


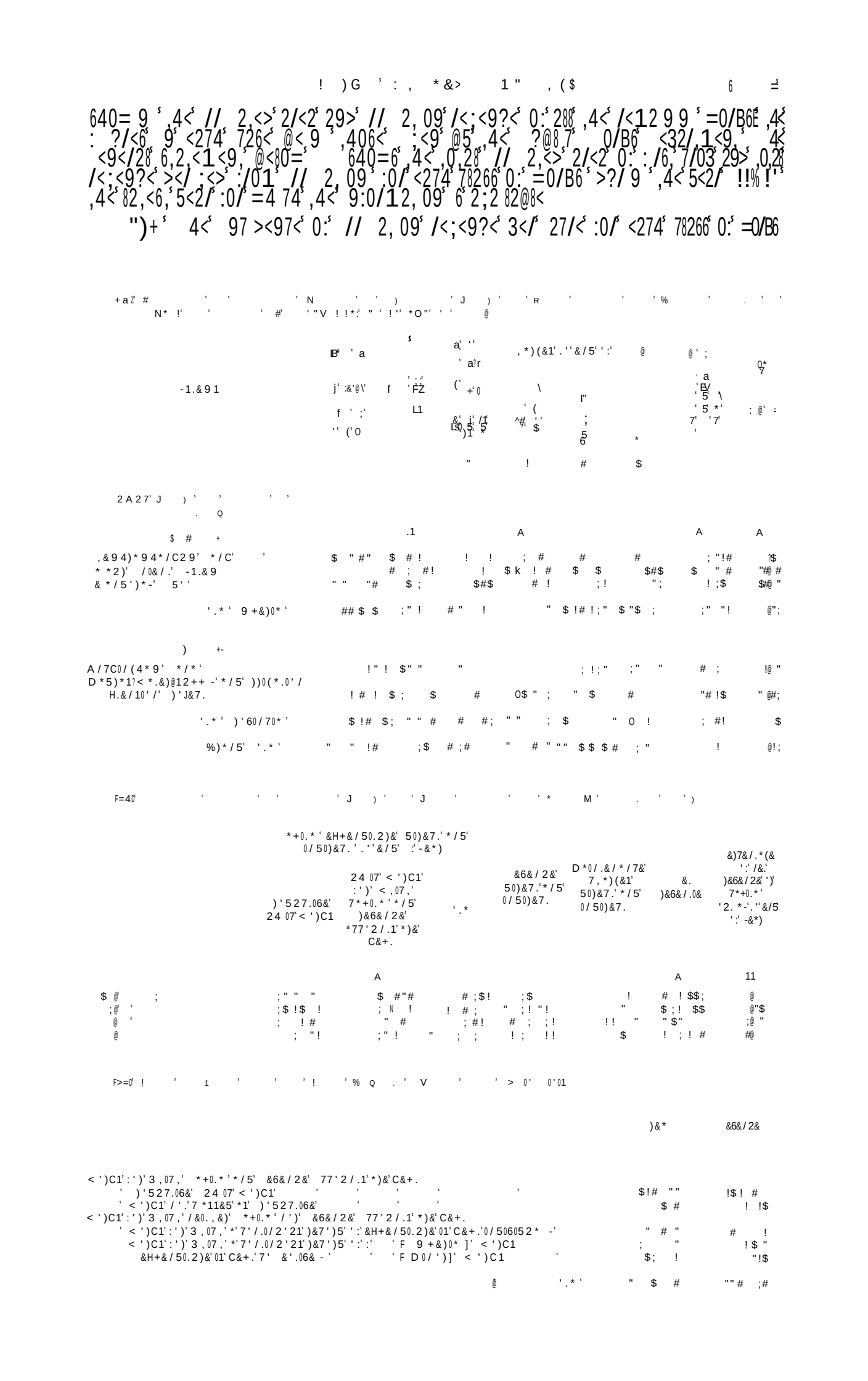


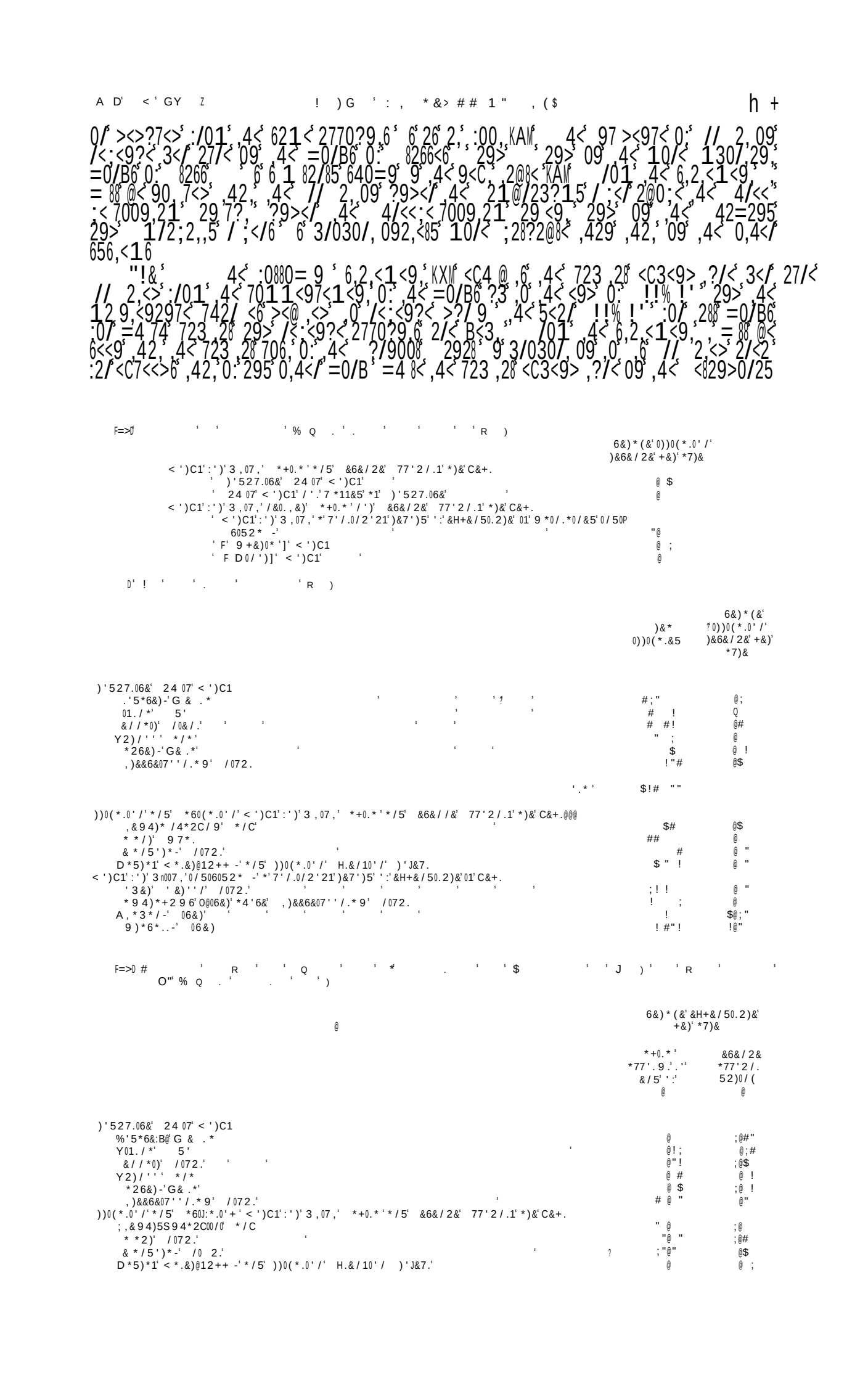


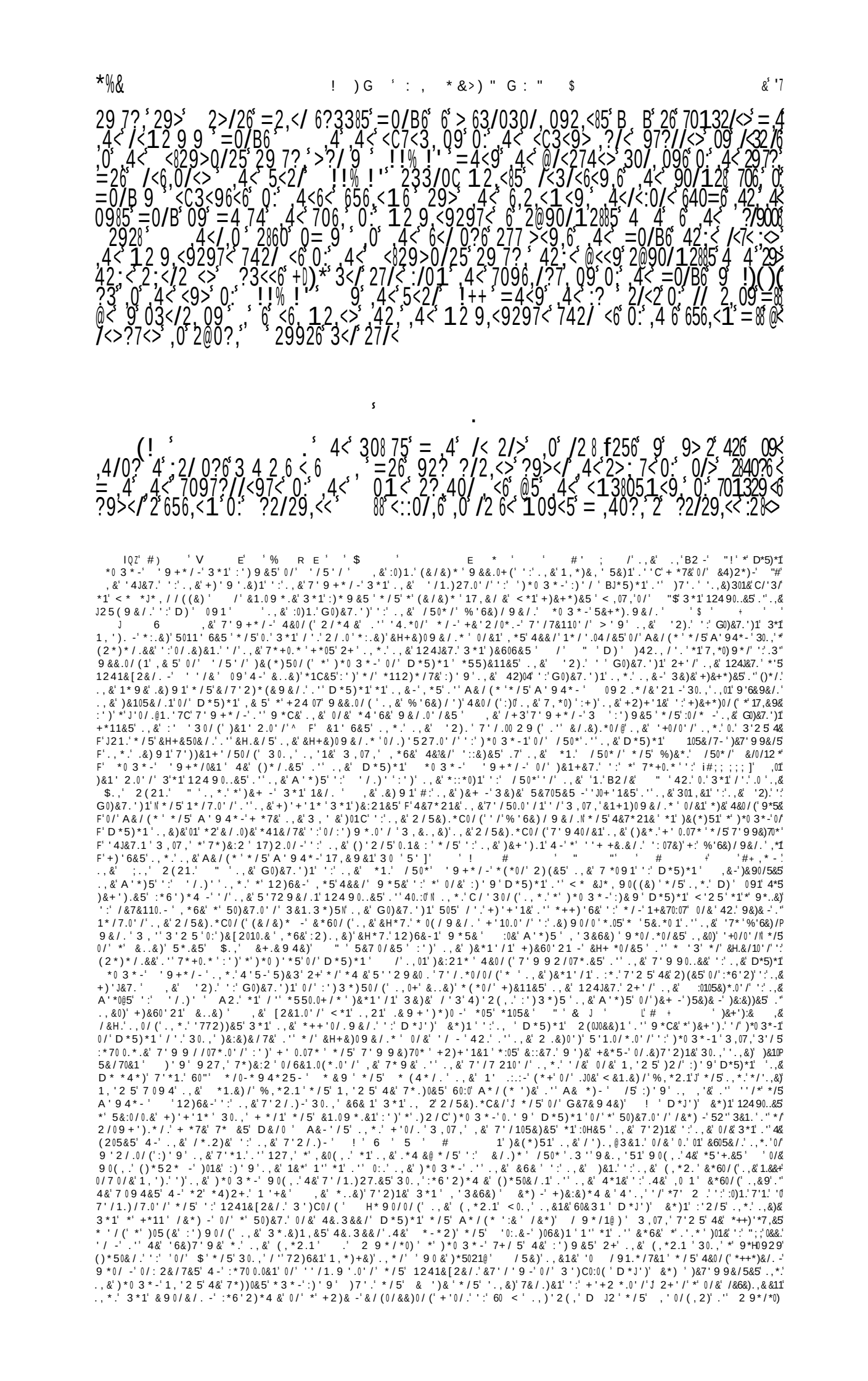


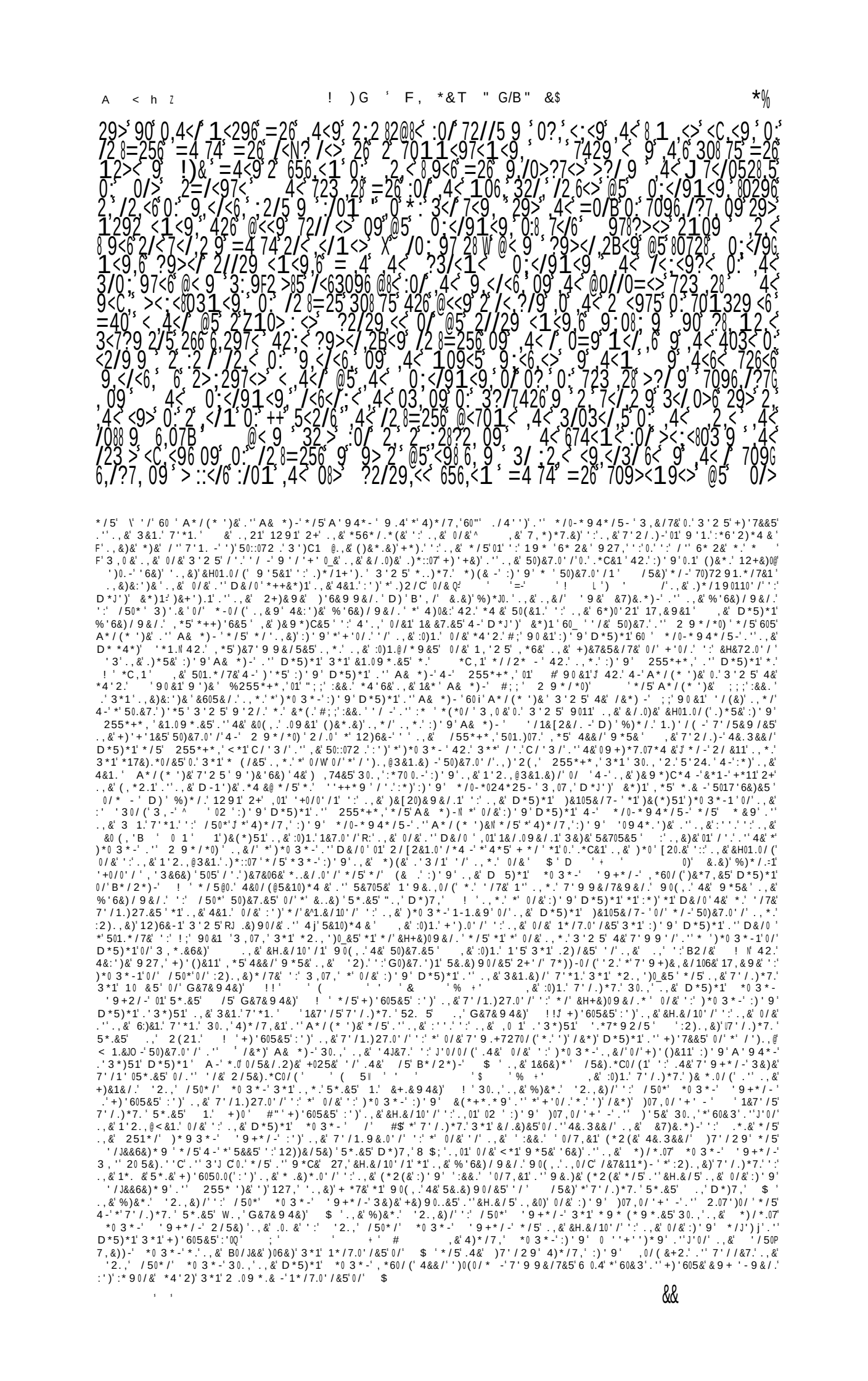


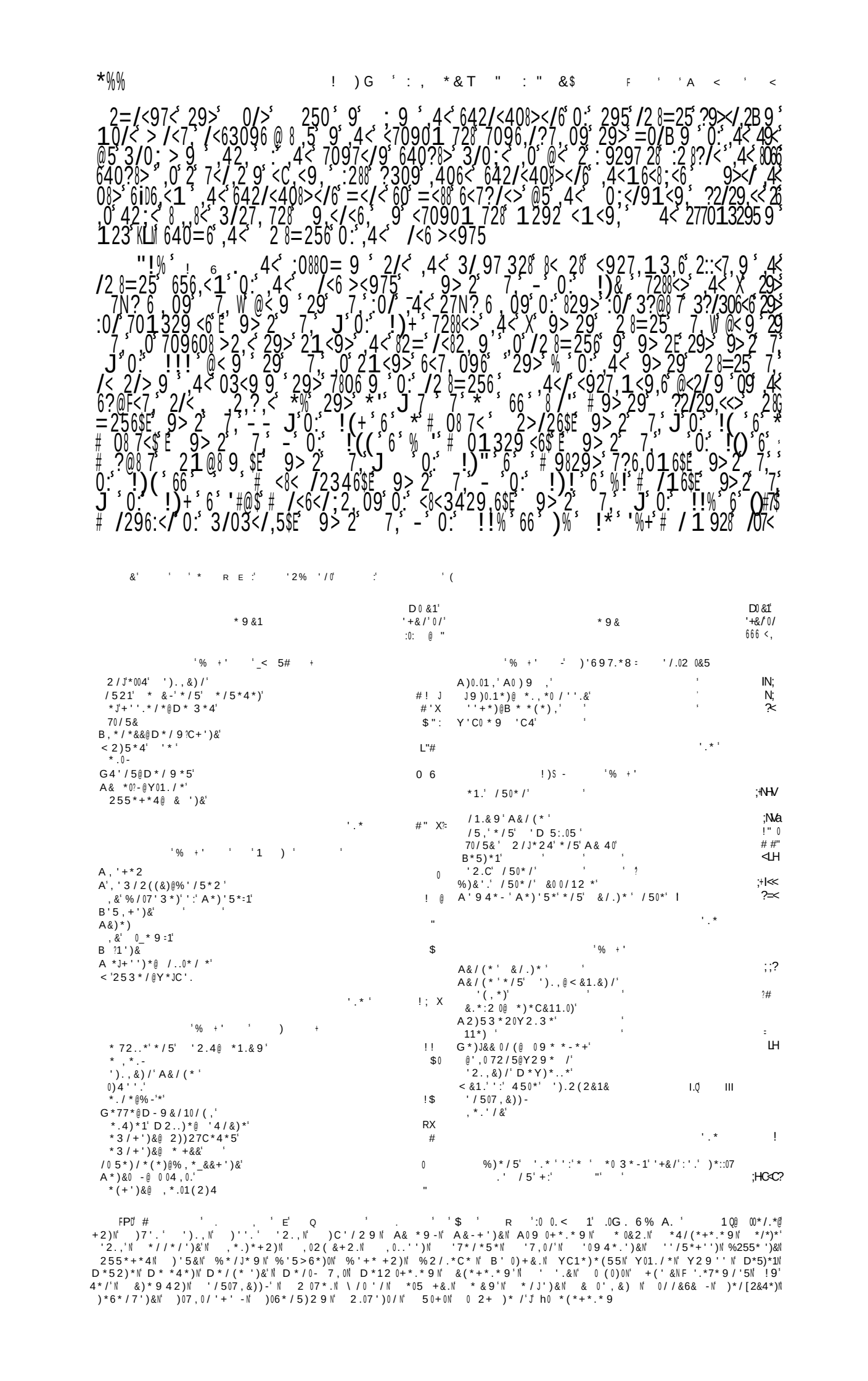




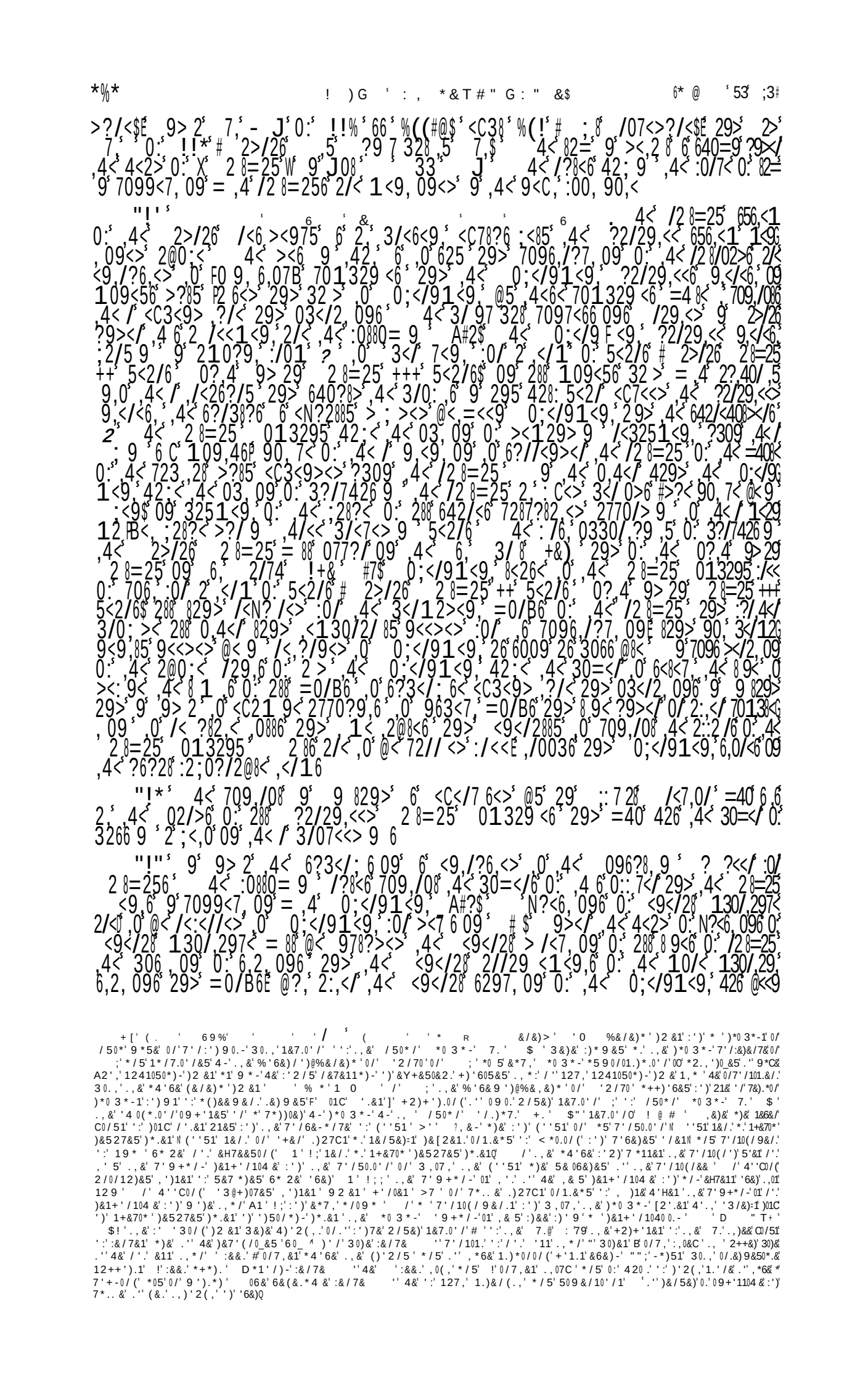


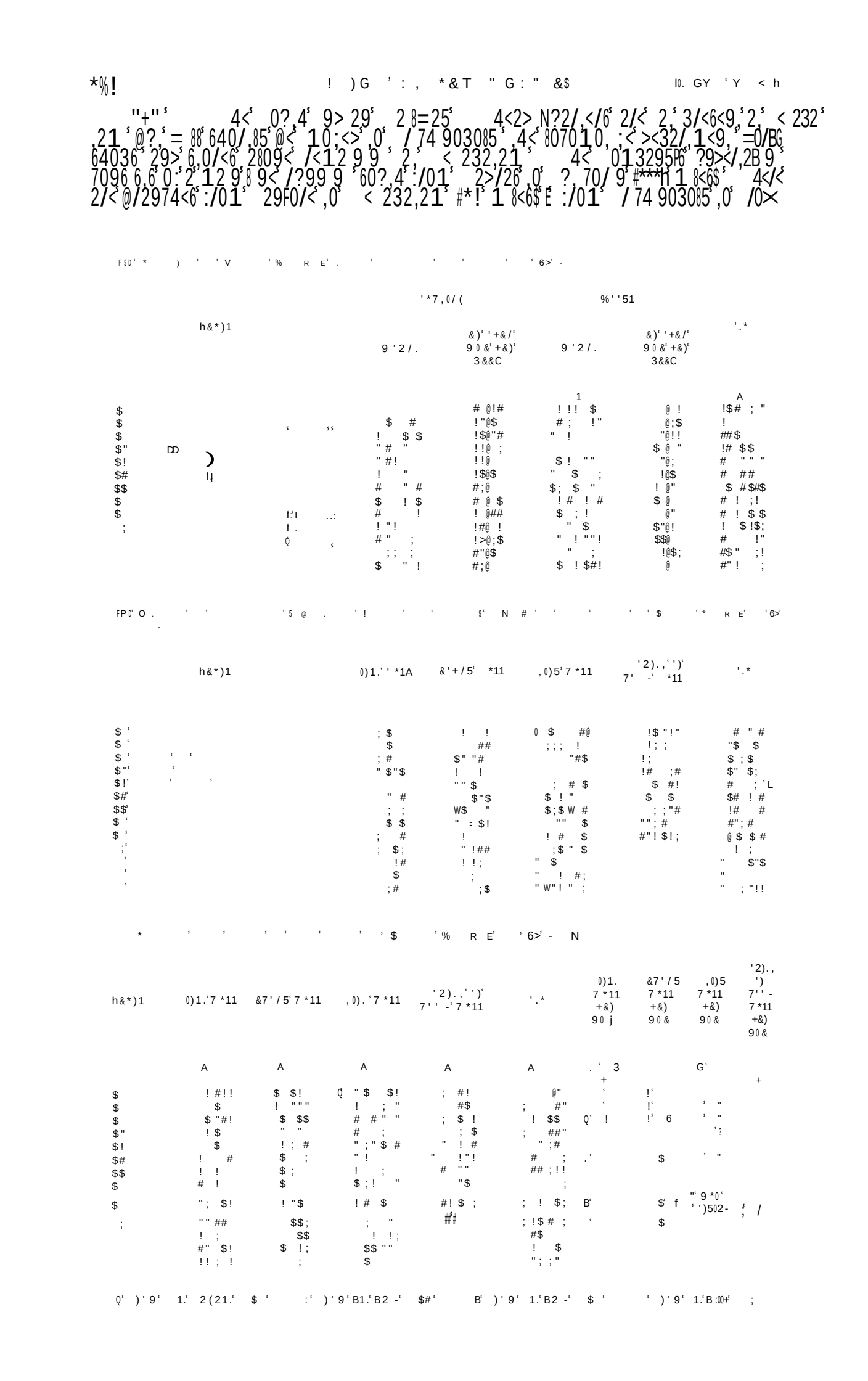


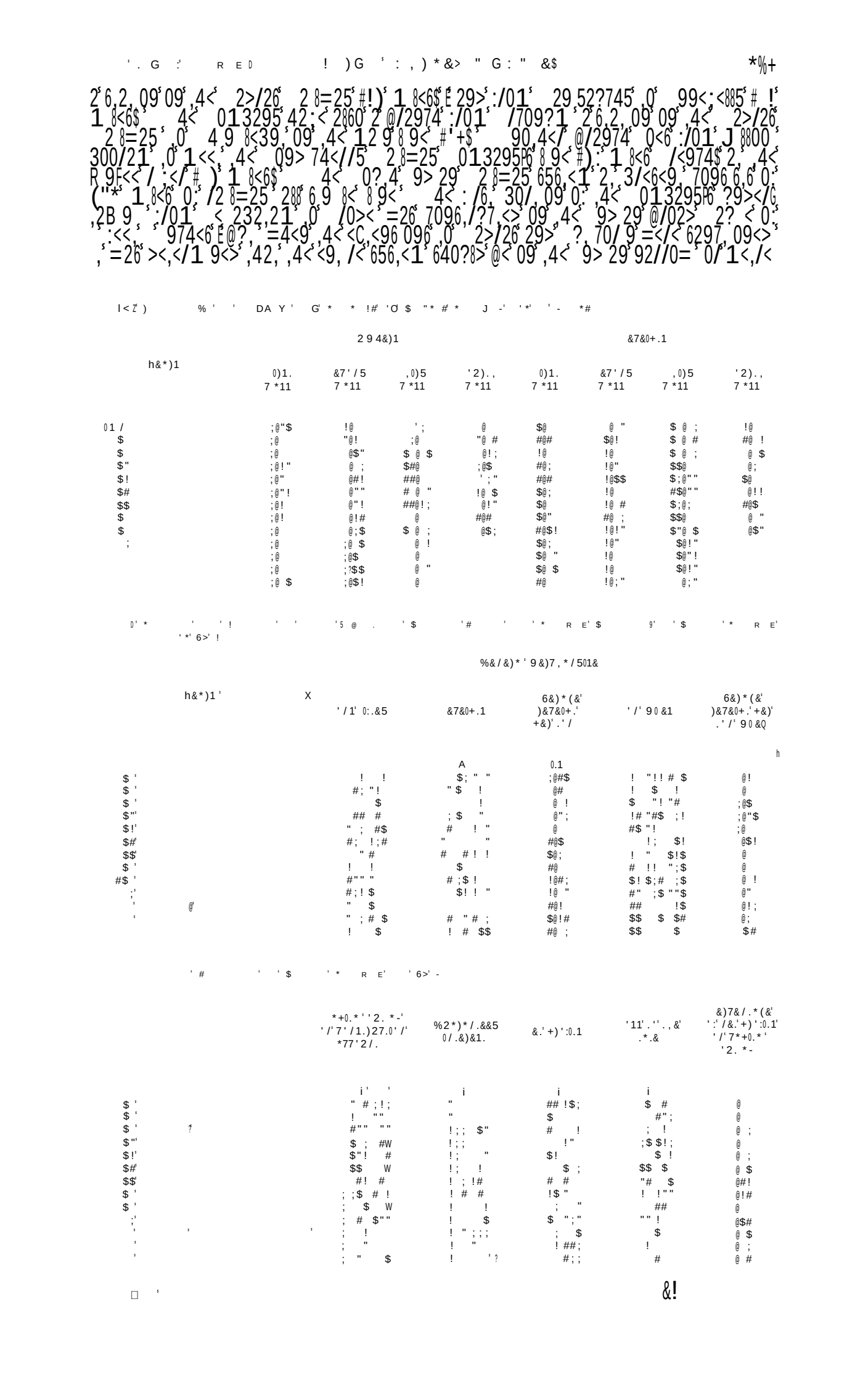




MAP
Shewing Railways &
Navigable Canals
Scale 1/100th Inch to the Mile
or 1/6336000 of nature
50 0 50 100 150 MILES
REFERENCE
Presidency Boundary
District do.
Broad & Metre Guage lines opened now
Lines under construction
Do. which have been suggested
Navigable Canals
CENTRAL PROVINCES
BENGAL
VIZAGAPATAM
GANJAM
GODAVERY
Chilka Lake
Ganjam
Chatterpore
Gopalpore
Calingapatam
Bimlipatam
Vizagapatam
NIZAM'S DOMINIONS
VIZAGAPATAM
GODAVERY
Cacinada
KISTNA
Masulipatam
Nizampatam
Kurnool
Ongole
BELLARY
KURNOOL
Bellary
Cudcaical Junc:
ANANTAPORE
Anantapore
CUDDAPAH
Cuddapah
Mellore
BOMBAY
MYSORE
Coondapore
Bolipy
SOUTH CANARA
Mangalore
Cosergode
MALABAR
Cannanore
Tellicherry
Calicut
Beypore
NEILGHERRY
Dotacamund
COIMBATORE
Coimbatore Junc:
Erode Junc:
SALEM
Salem
Tellapett Junc:
Villoopooram Junc:
NORTH ARCOT
Arcotum Junc:
Poolicat
MADRAS
Sydapett
Chingleput Junc:
SOUTH ARCOT
Pondicherry
Cuddalore
Tranquebar
Caricail
Negapatam
TRICHINOPOLY
Trichinopoly Junc:
Tanjore Junc:
COCHIN
TRAVANCORE
Cochin
Laccadive Is.
Maldive Is.
MADURA
Madura
TINNEVELLY
Manyachy Junc:
Tuticorin
Tinnevelly
Quilon
Trivandrum
Cape Comorin
Paumben
CEYLON
Kandy
Scale 1 Inch = 320 Miles = 1/20275200







2? <' 0:' " :<<,' ' :' 974<6 ' 4<' 709;</6 09' 0:' ,4<' < 232,21 /0><' @/2974',0 ,4<' 1<,/<' 2?' <' =26' 7013 8<,<>' 9' <7<1@</' !)+' 29>' 42' 0:' ,4<' /709?1' 09F<<:'</21' 6<7, 09' 9' R?85' !)!' 97<',4<' 03<9 9' 0:' ,4<' 8 9<',4/0? 40?',4< 30/, 09' :/01' 2>/26' 0' ?, 70/ 9' 6' 7096 ></<>' ,4<' 12 9' 8 9<' = ,4' @/2974<6' ,0 /7709?/2' 09> 74<//5' <' 232,21' /0><' 29>' 99<:<885' 4<' 0?,4' 9>29 288=25' 013295' 2860' =0/B6' ?9></' 2 /<<1<9,',4<' 30/, 09' #):' 1 8<6$ 0:',4<' 09>G 74<//5' 2 8=25' 85 9' = ,4 9' /<974',</ ,0/5' /<,2 9 9' 26' =0/B 9 6'<C3<96<6',4< 621<' 3</7<9,2' <' 0:' /066' /<7< 3,6' 26',4<',/2:: 7' 09',4<' 12 9' 656,<1' 0:' ,4<' 0?,4 9> 29' 013295' 6':/01' 1<',0',1<' =0/B<>' 2,' 4<' 8 6,6' :<9' 9' J08' 33' - - J' 0:' ,4<' 6,2, 096' 09',4<' 0?,4' 9> 29' 2 8=25' = ,4' > 6,297<6' 2::0/>' 2';<=0' ,4<' 656,<1' 9' ,4<' < 232,21' /0><' 6<7, 09' 0/ 92885' @/02>' 2?' <',4<' /286 =< 4 9' ' 8@' ,0',4<' 52/>' 2/<' 82 >' 32/,85' 09' /09' 30,6' 29>' 32/,85' 09' =00><9 68<<3</6' 9',4<' /709?1 09F<<:'</21'6<7, 09' 0/ 92885' "':<<' 974' 2?' <',4< /2 86' =< 4' ' "' 8@' ,0',4<' 52/>' 29>' 09' 0,4</' 30/, 096' 0:' ,4<' 8 9<',4<' /2 86' 2/<' *&Y"' 8@' 29>' 2/<' 82 >' 09' =00><9' 68<<3</6' 4<6<' 68<<3</6' = 88' 9' 288' 3/0@2@ 8 ,5' @<'/<3827<> @5' =/0? 4, /09' 68<<3</6' 29>' 9' :?,?/<' 288' /2 8' /<9<=286' = 88' @<' 12><' = ,4' (& 8@' 6,<<8 /2 86' 4<' /2 96' 09',4 6' 8 9<' 2/<' =0/B<>' 09' ,4<' /2 9' ><632,74 9' 656,<1' 701@ 9<>' = ,4' 2' X' 8 9<' 78<2/' 29>' 72?' 09' 1<662' <W' <C7<3,' @<,=<<9' 10/<' 29>',4< @<274' # 2>/26$' =4</<',4<' X,/2 9' 6,2::' 29>' 7B<,W' /?8<6' 2/<' 9' :0/7<' 9',=0 6<7, 096' 0985' 0:' ,4 6' 8 9<',;' I':/01' / 74 90308 5',0' 2>?/2' 09' ,4<' 12 9' 8 9<' 29> :/01' / 74 90308 5',0' /0><' >0',4a' /2> <9,6' <C7<<>' 9' %&& 9',4<6<',=0 6<7, 096 ,4<' /?8 9' /2> <9,6' 9' && 7</ 2 9' 9?1@</' 0:' :<4 78<6' 2/<' 0' @<' :' ,' <> ?3 26' 21@?8297<' 72// 2' <6',0' @<' ?6<>' :0/' 0/> 92/5' /2:: 7' ?98<66' /<N? /<>' :0/' 1' 4,2/5 3?/306<6' 4<' :' ,9 6' 2/<',0' @<' B<3,2' / 74 90308 5' 3/<6' + ,4 /> 78266 72// 2' <6' 2/<' 701 38<,<>' = ,4' 4<' <C7<3, 09' 0:' ,4<' 9 </928' : 9 6' =4 74' 2/<' 9 429>' 028' 29>' =00>' 2/<' @?/9,' :0/' 80701 0,' :<' 3?/306<6' 09' ,4<' 12 9' 8 9<' 60?,4 0:' / 74 90308 5',29>' 09',4<' 99<:<885' 29>' /0><' @/2974<6E' 39' 288' 0,4</' 32/,6' 702 8 6' 2809<' ?6<>' 4<' 12 86' 29>' 306,28 6</';29,6' 2/<' 72// <>':/<<' 29>':0/',4< / 27701G 10>2, 09' (72// 2 <6' 42';<' @<<9' 63<7 2885' : ,,<>' ?3' 09' 2' 53<' 6?338 <>' @5',4< 0:</91<9,0:' 9> 2':0/' <9</28' 2>03, 09' 4</<' =</<' 9' !!' !*' 09',4<' 03<9 8 9<') %&!' <1 3805<6' 0:' =401')(' =</<' ?/03<296' '*+' 26' 9> 296' 29>' ()!" 2,':<6' 4</<' 6' 90' 6<32/2,<' 308 7<' :0/7<' 09',4 6' /2 8=25' ,4<' >?' <6' @< 9' 3</G :0/1<>' @5',4<' 0:</91<9,' 308 7<' 29>' 32' >' @5',4<' 6,2,<' J08?9,<</' 70/36' 426 /<7<9,85' @<<9' 6,2/',<>' 2,' < 232,21' 29>' /' 74' 90308 5' ?9></',4<' 7011 29>' 0:',4< P 7010,':<' ?3</' 9,<9><9,' @?,' 26' 5<',' ' 6' 0985' 9' 6' 9:2975' 0/' 1<> 728 3?/306<6',4<' /2 8=25' 6' >':><>' 9,0' 9',<' > 6,/ 7,6' <274' 9' 342/' < 0:' 29' 230,4<G 72/5' ?9><' 4<' 6?3</ 9,<9><97<' 0:' 2' ' 8' ?/' <09' 2,2 7<9,/2885 6',22,<>' 6,2, 09' =40' 277<3,6' /<1?9</2,09' :/01',4<' 013295' 29>' 6' 6,58<>',4<' 33</ 9,<9>@' 456 7 29' 29>' 2,' 6 C' 0,4</' 6,2, 096',4</<' 2/<' ' 8' ?/ <096']J406< 3/0:<66 0928' 2>' =0?8>' @<' 60? 4,' 9',4<' <;<8 ,' 0:' 2' 6</ 0?6' 077?//<97<

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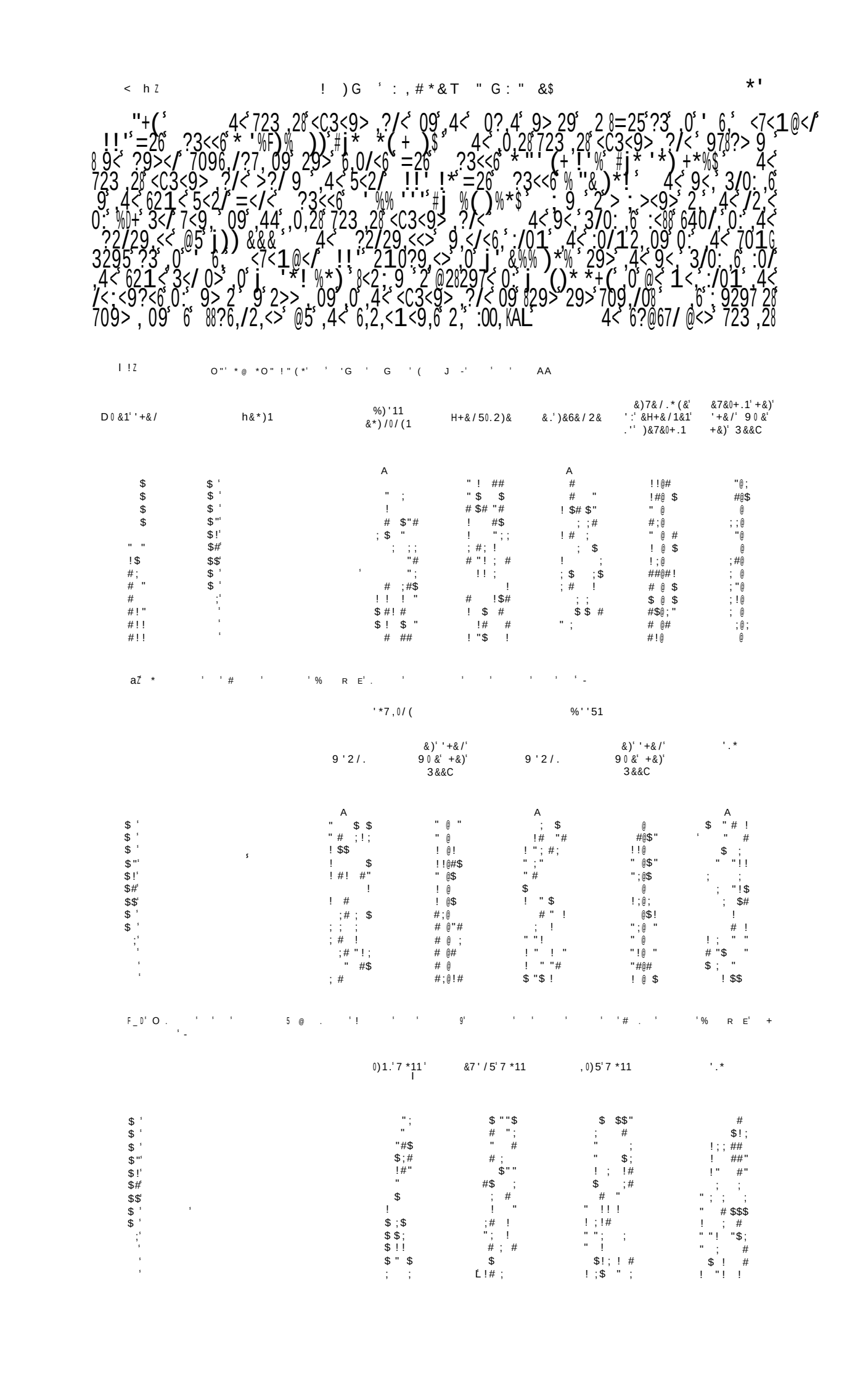

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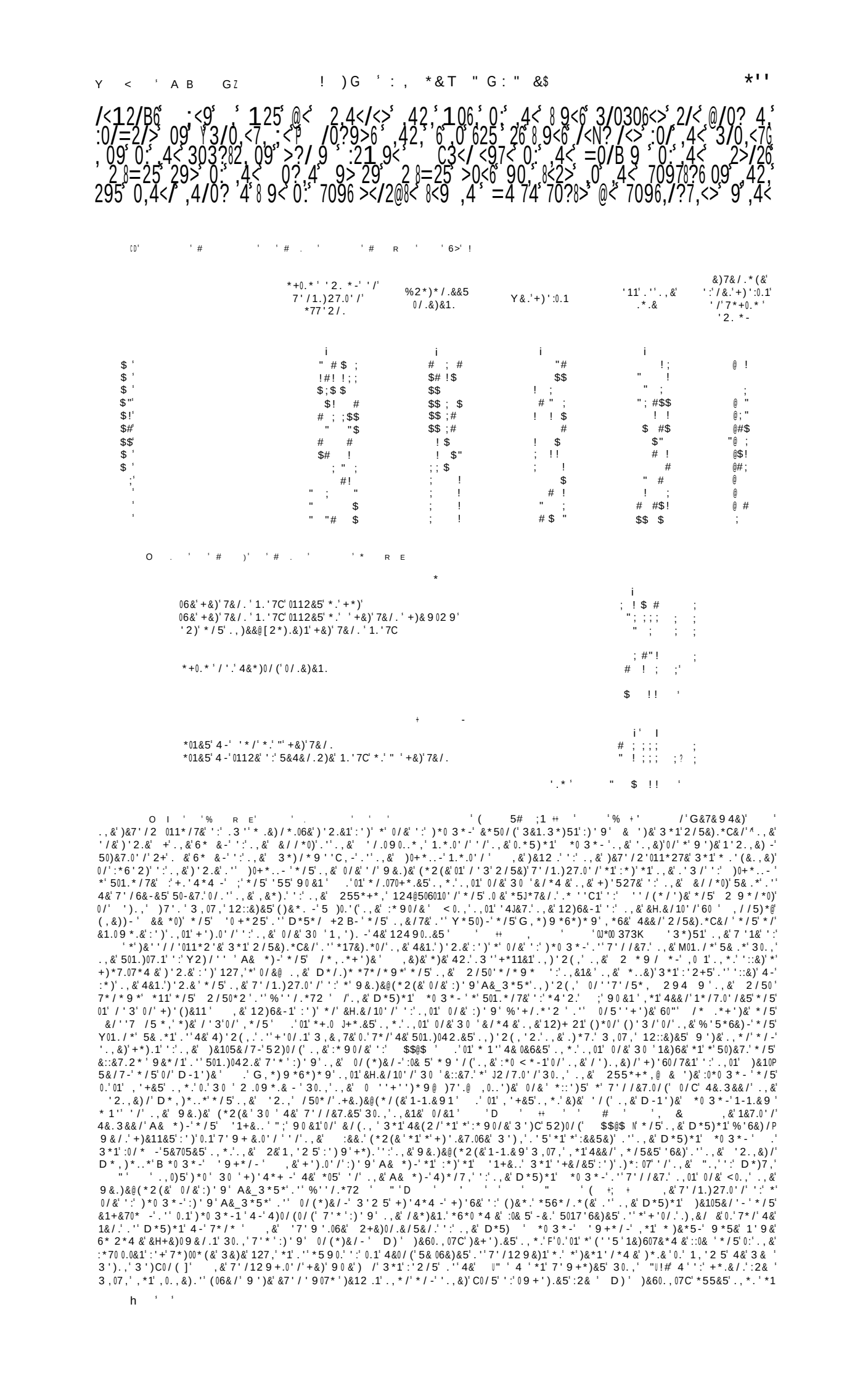

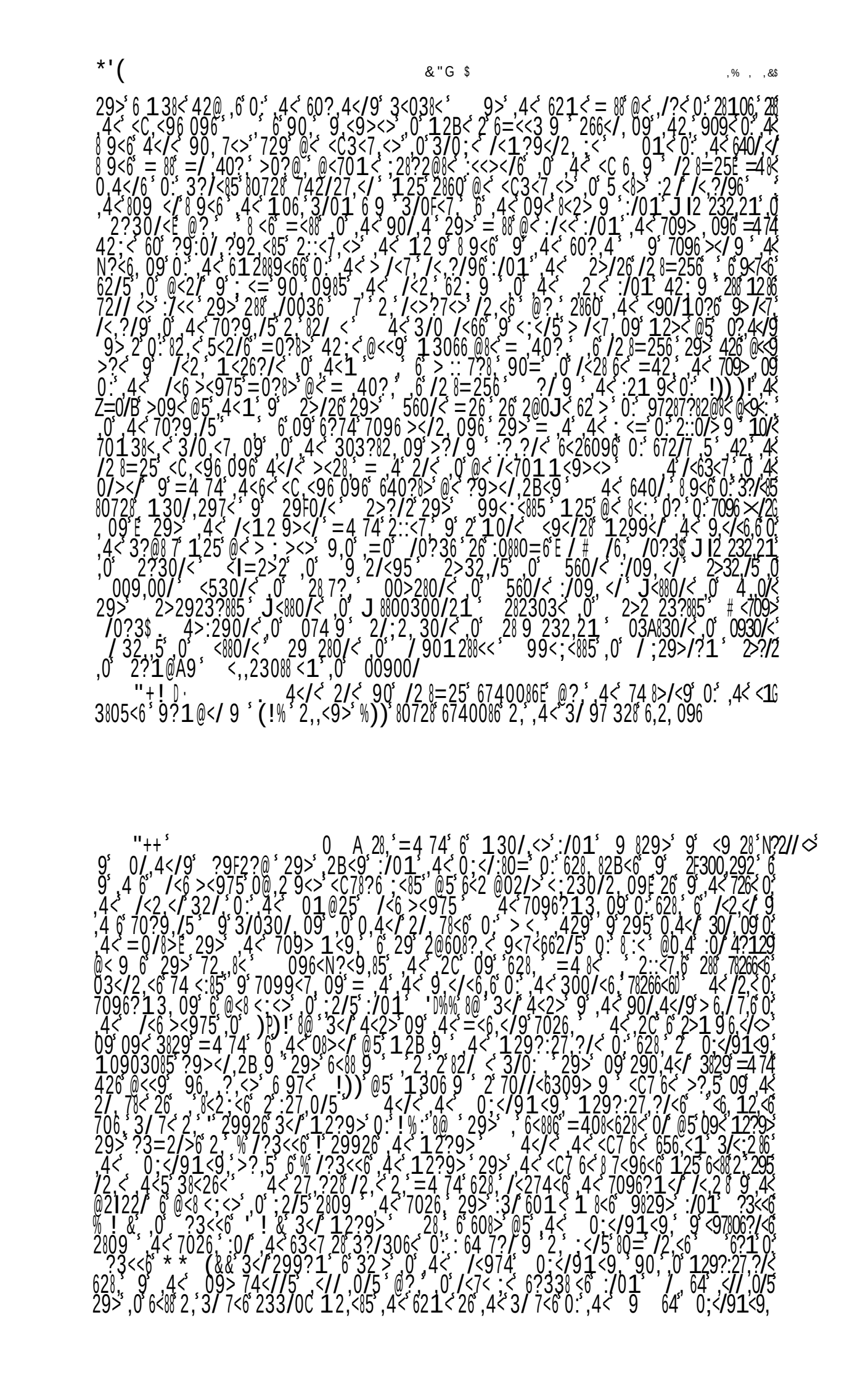

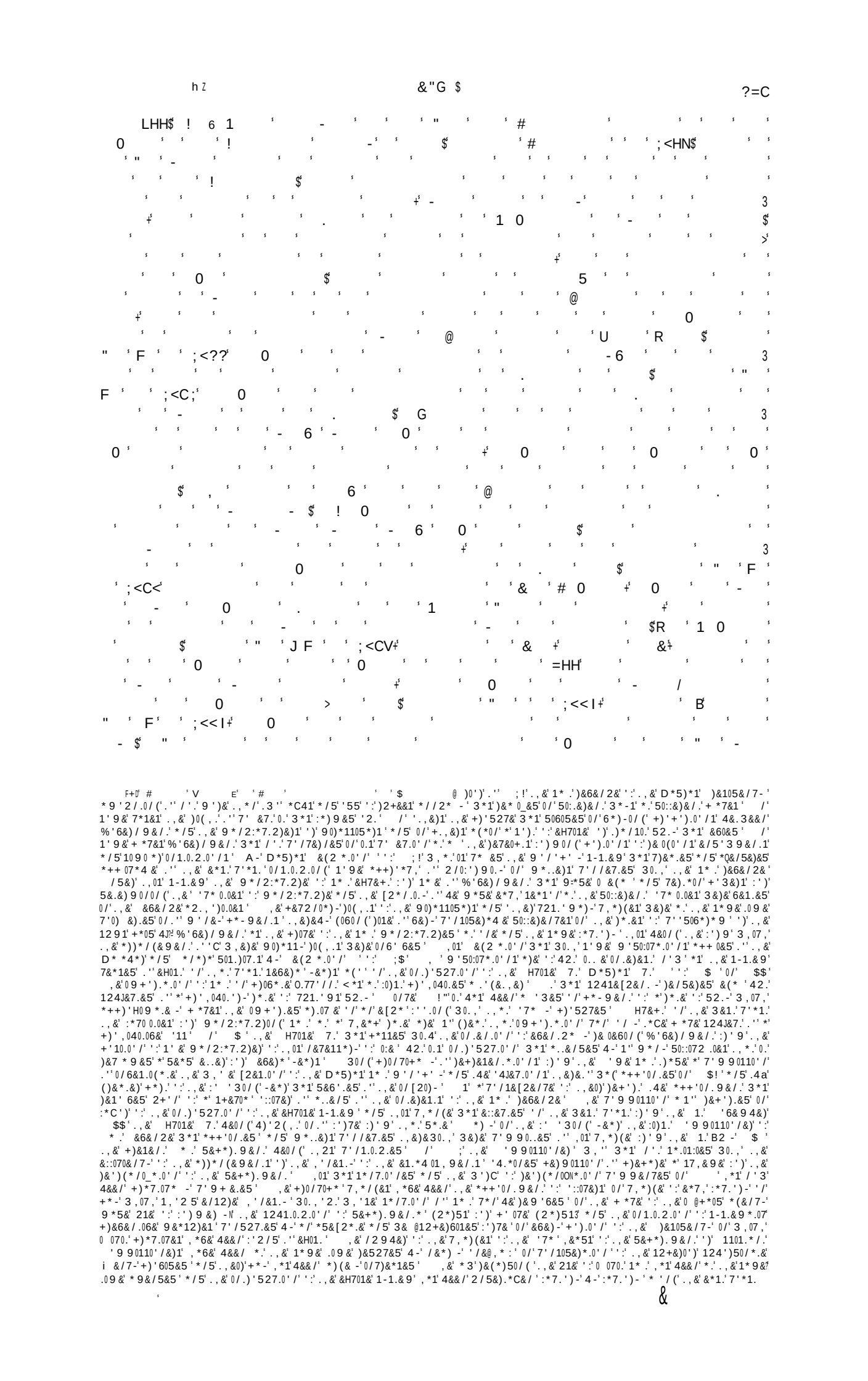

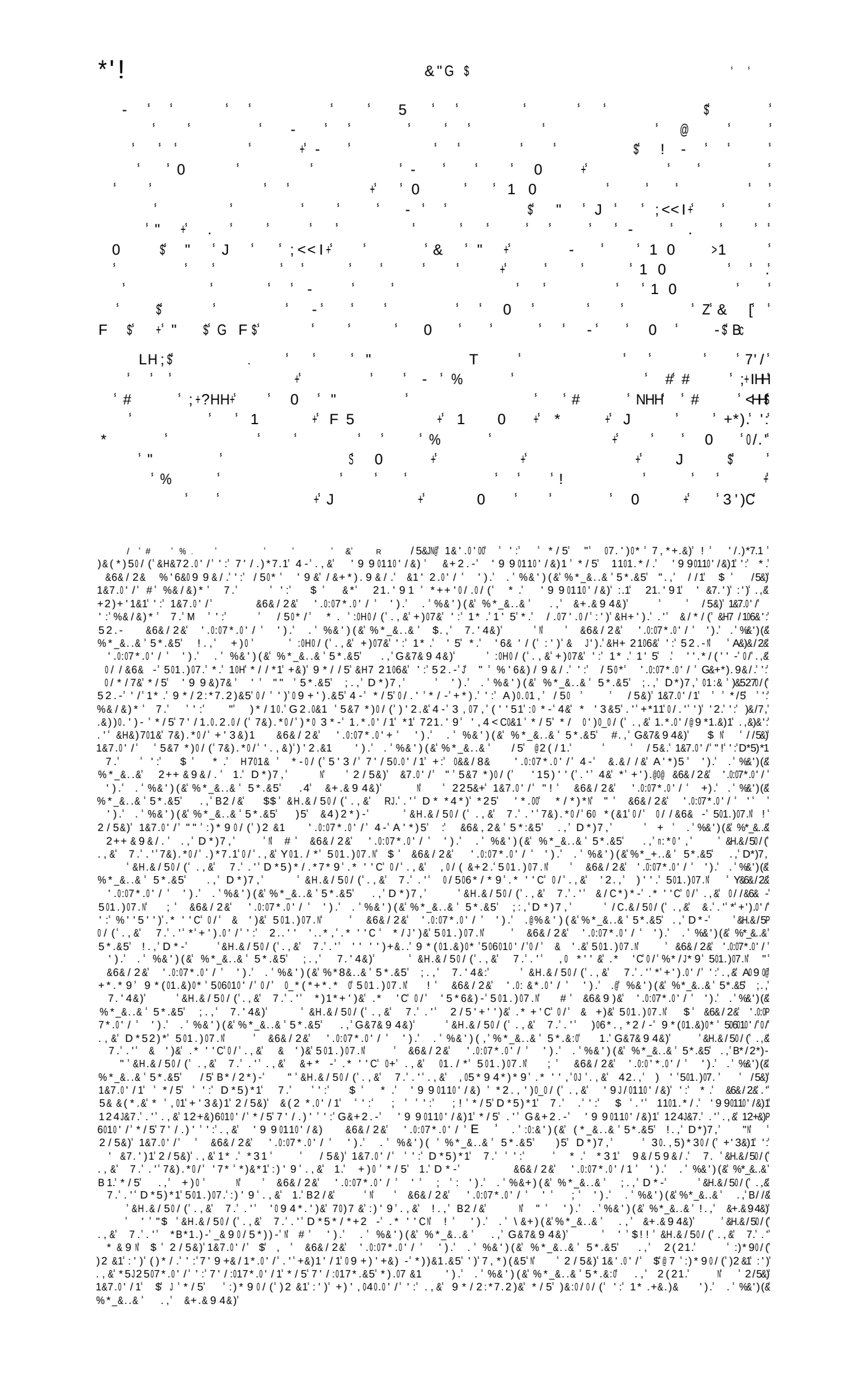

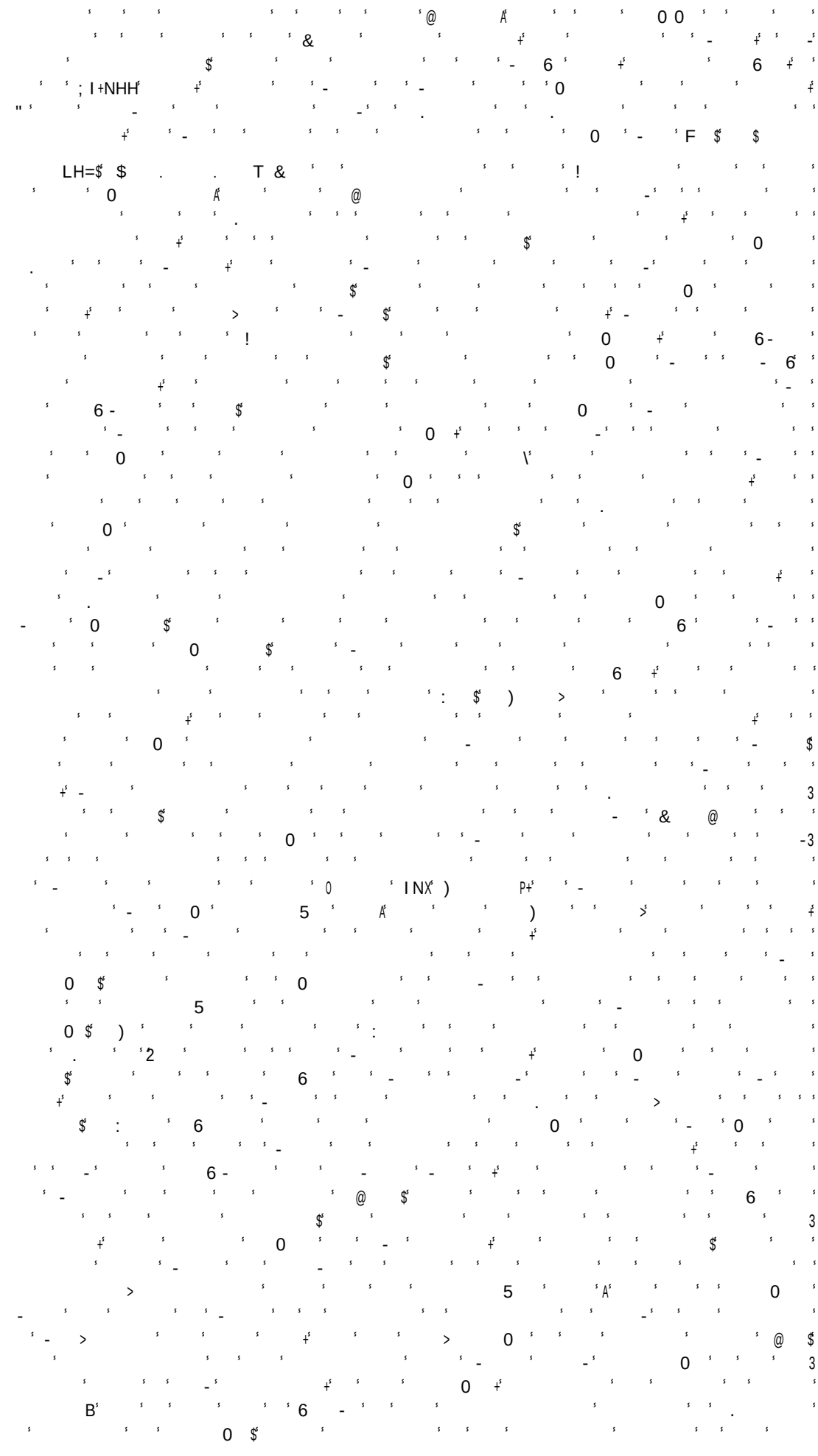

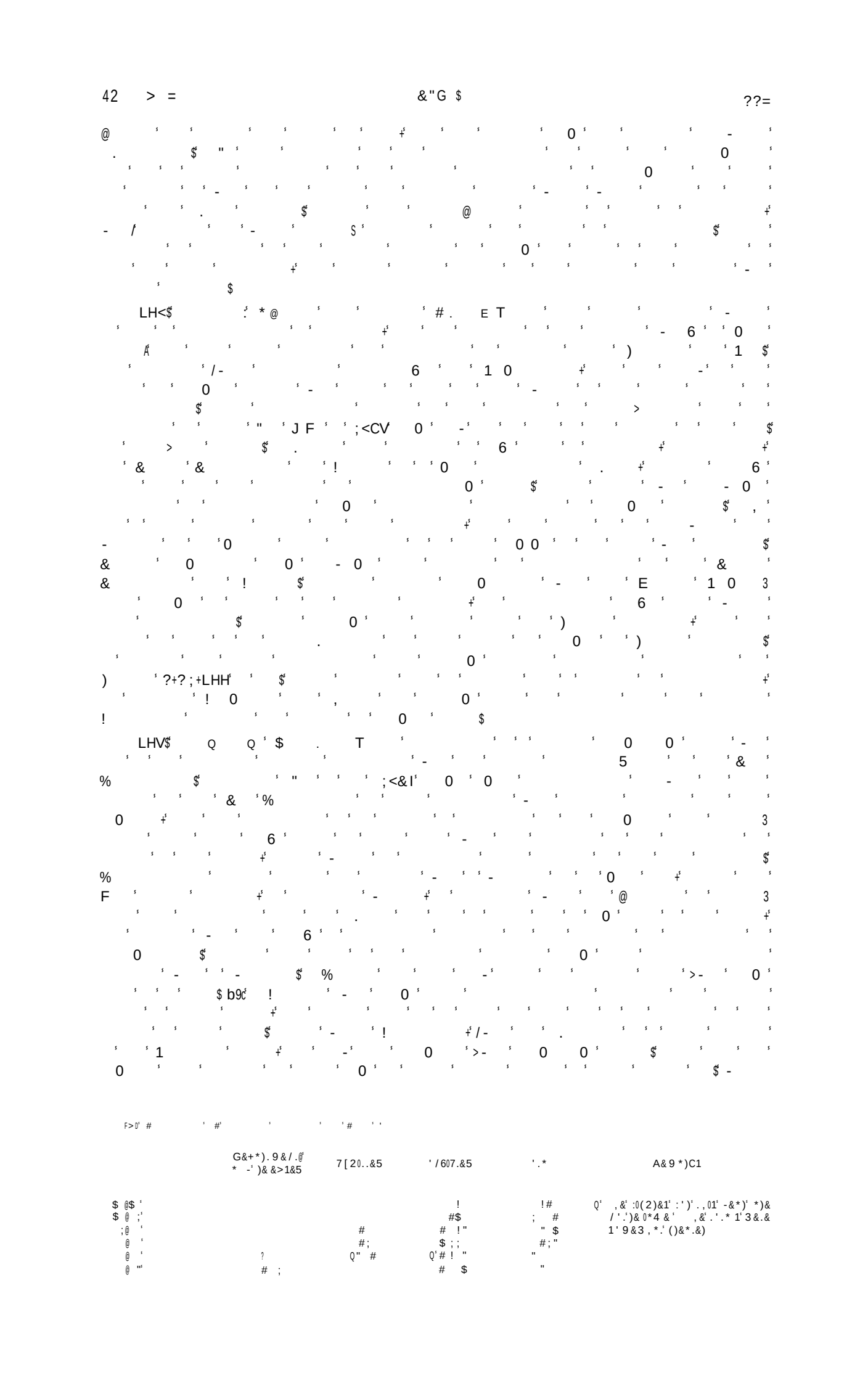

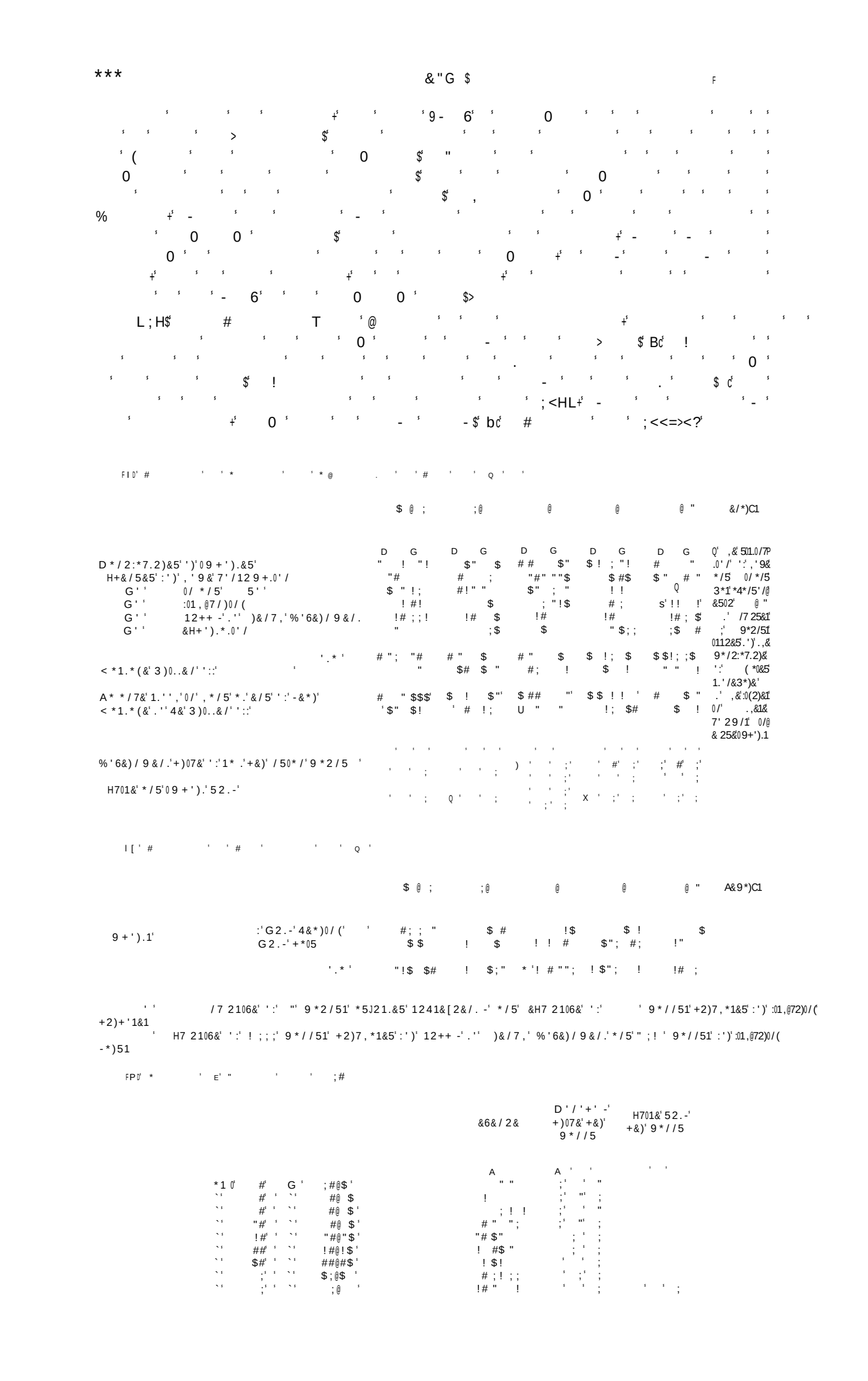

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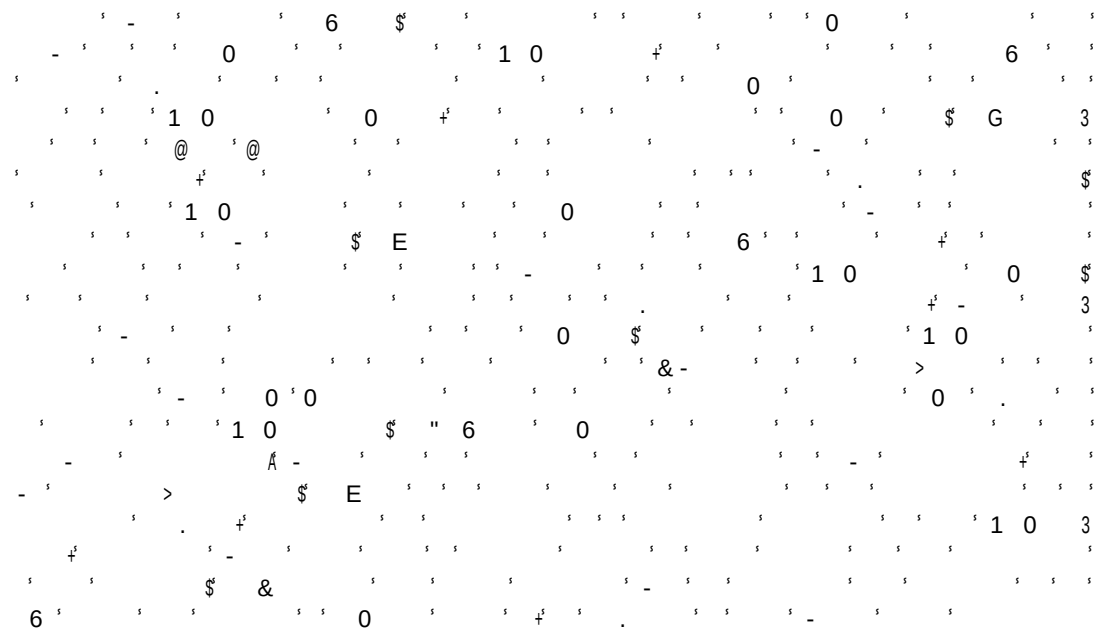

0/' . , &' 1 , '+1' ' :' 0 070. -@ 9 *5&' 1+0)0.1 ' &*) -' * ' . , &' 1 , '+C&&+&)1' C / ' 3' , ' 3' . '' 501.0 N 42.' 30. , ' . , &' / 05&' *++ 0*2 ' &1' 3 , 07 , ' * ' / &' . , &-' 7* / '7' 9 9 * / 5' . , &-' 7* /' , *)5 -' 9 *C&' . , &' , 0(, &)' 1.)&/ (. , 1' ;p' * / 5' ;p' 2 / 5&)' +) ' ' :' *.' * ' * / 5' . , &-' 7* / / ' .')&(2P *.&' . , &' 1.)&/ (. , ' 30. , ' 12::070&/ .' *772)*7-' . '' &17*+&' 5&.&7.0' / ' :' 0.' 3&)&' 7&).*0/' . , *.' 0 070.' 501.0 *.0' / ' 3&)&' *41' 2.& -' 09 + ' 1104 & ' . , &')&(2 *.0' / ' :' 1.)&/ (. , ' 90 (, ' +&) , *+1' 4&' 501+&/ 1&5' 30. , ' , &' *1.' 7 , * / (&' ' :' 7 ' / 1&[2&/ 7&' 01' . , &')&527P .0' / ' ' :' . , &' +&)0' 5' : ')' 3 , 07 , ' . , &' &H7 2106&' +)060 &(&1' *)&' . '') 2 / ' .' 21&5' . '' 4&' . ,)&&' -&*)1N 0 / ' "' . , &' +&)0' 5' 3 *1' 9 *5&' &0(, .&&/ ' 9 ' / . , 1' 1 '' *1' . '' 7 ' / 7 25&' 30. , ' . , &' ' ::070* ' -&*)' @ #' 42.' . , &)&*:.&)' . , &' 7 ' / .)*7.1' *)&' . '' 4&' * / / 2* ' , &' 4J&7.' 0 / ' 60&3 ' 01' . '' &/ * 4 &' %' 6&) / 9 &/ .' . '' 4)0 / (' 0 / . '' ' +&)*.0' / ' * / 5' 1+&&50 -' . '' 4&/ &:0.' 4 -' * / -' 09 +)' 6&9 &/ .1' 0 / ' . , &' 1-1.&9' 3 , 07 , ' &H+&)0&/ 7&' 9 *-' 12((&1. ' * / 5' . '' &H+&50.&' . , &' +)' 7&11' ' :' &6& 0 / (' 2+' . , &' .*H*.0' / ' ' / ' 7 ' 2 / .)-' 1+0)0.1' . '' . , &' 09 + ') . ')*.&' .' 3*1' . , ' 2 (, ' . . , *.' . , &' 1, '). / &11' ' :' . , &' +&)0' 5' 3 ' 2 5' +)&6&/ .' *5&[2*.&' 4051' *.' , &' *27.0' / 1N 42.' 0.' 1&&91' . , *.' 30. , ' 19 * ' 7 ' / .)*7.1 ' 127 , ' *1' . , ' 1&' : ')' .* ' ' C1' * / 5' 1, '+1' *' -&*)' 01' . ' / (' &/ ' 2 (, ' 27 , ' *.' &*1.' 01' . , &' 7 ' / 7 210' / ' . '' 4&' 5)*3 / ' :)' 9' . , &' 1* &1' : ')' *' -&*)' ' / - ' ' :' . , &' . ' 55-' * / 5')&/ .&5' *))*7C' &*1&1' 3 , 07 , ' 0 / ' "' +)' 527&5' * / ' 0 / 7)&*1&' ' :' ! J' *C , 1' ')' 9 ')&' . , * / ' . 3 &/ . -' +&)' 7&/ . N ' :' . , &' *))*7C' 7 ' / .)*7.1' . , &/ ' 501+' 1&5' :' 3 , 07 , ' 1 ' 5' : ')' &0(, .&&/ ' 9 ' / . , 1' *.' * / ' 0 / 7)&*1&5')&6&/ 2&' :' / &*) -' ' *C , 1' *@-&*)' ')' *4 ' 2.' :0:.-' +&)' 7&/ . N * / 5' :' . , &' . ' 55-' * / 5')&/ .&5' *))*7C' :*) 9 1' 1 ' 5' 0 / ' ! ' * / 5' :) ' 9 ' 3 , 07 , ' * / ' 0 / 7)&*1&' 01' &H+&7.&5' :' *4 ' 2.' 1&6&/ ' *C , 1' ')' *4 ' 2.' . 3 &/ . -' +&)' 7&/ . ' 2+' / ' . , &' *)(&' 0 / 7)&*1&' *)&*5-' 1&72)&5' 0 / ' "' ' / -' *' -&*)' 4&:')&' ' (" ' ' ' ' ' ' + ' ' ' A0 ' :')' . , &' 7 ' / 1 ' 05*.0' / ' * / 5' * 9 &/ 59 &/ .' ' :' . , &' 4C*))-' * 31' 01' / ' 3' +&/ 50 / (' 4&:')&' . , &' '7 * ' &(01 * .06&' '2 / 70 ' * / 5' 30 ' 1 , '). -' 4&' +*11&5 ' .1' +)0 / 70+* ' 4J&7.' 01' . '' 09 +)' 6&' . , &' *590 / 01.)*.0' / ' 4 -' . , &' *++ ' 0 / . 9 &/ .' ' :' *' ' 9 90110' / &)' ' :' 4C*))-' 3 , '' 30 ' , *6&' . , &' :2 ' 7 ' / .)' 2 ' ' :' . , &' 4C*))-')&6&/ 2&' * / 5' 2 / 5&)' 3 , ' 1&' ')5&)1' . , &' ' &' . ')1' ' :' 501.)07.1' * / 5' . , &0)' 124 ')50 / *.&1' 30 ' 4&' + *7&5 ' 1'' :*)' *1' . , &0)' 52.0&1')&*.&/ . '' . , &' 4C*))-' ')' &7 ' / ' 9 -:1' 1*C&' 0.' , *1' 4&&/ ' 5&705&5' . , *.' . , &' *++ ' 0 / . 9 &/ .1' ' :' ' 9 90110' / &)' ' :' * . ' * / 5' ' :' 4C*))-' &6&/ 2&' 1 , * ' 4&' , &5' 4 -' *' 10 / (&' ' ::07&)' * / 5' . , *.' . , &' +)&6&/ .06&' *7.0' / ' / &7&11*)-' : ')' . , &' +)' .&7.0' / ' ' :' . , &' 4C*))-' 1 , * ' 4&' &/ .)21.&5' . '' . , &' +)&6&/ .06&' *(&/ 7-' *)&*5-' &/ .&)P .*0 / &5' . ,)' 2 (, ' 2.' . , &')&105&/ 7-' : ')' . , &' +)' .&7.0' / ' ' :' . , &' * .' &6&/ 2& ' , &' A0 ' +)' 605&1' . , &' / &7&11*)-' +' 3&)1' . ' * 1 ' &(* 01&1' . , &' &6-' ' :' . , &' . ' 55-')&6&/ 2&' 4 -' . , &' 09 +' 10.0' / ' ' :' * ' .)&&&.*H' * / 5' *2. , ')01&1' . , &' :)* 90 / (' ' :' 127 , ')2 &1 ' . '' , *6&' . , &' :')7&' ' :' *3 ' *1' 9&' 6&)/ 9 &/ .' 9 *-' :)' 9' .09 &' . '' .09 &' :0 / 5' / &7&11*)-' : ')' . , &')&(2 *.0' / ' ' :' . , &' 5&.*0 1' ' :' . , &' *590 / 01.)*.0' / ' &' 4J&7.' ' :' . , &' A0 ' 01' 0 / ' 1 , '). ' . , &' 09 +)' 6&9 &/ .' ' :' . , &')&6&/ 2&' 4 -' . , &' 7 ' / 7&/ .)*.0' / ' ' / ' . , &' 124J&7.' ' :' . , &' *..&/ .0' / ' ' :' *' 10 / (&')&1+' / 104 &' ' ::07&)' ' :' 1.*/ 50 / (' * / 5' &H+&)0&/ 7&' N 4-' . , &' +' 3&) ' 2 / 5&)' . , &')2 &1 ' ' :' 6*)-0 / (' 0.1' .)&*.9&/ .' *1' 70)72 91.*/ 7&1' 9 *-')&[20)&N */ 5' 4-' . , &' 1241.0.2.0' / ' :')' . , &' 0))&(2 *)' * / 5' 09 +&):&7.' +)&6&/ .06&' *7.0' / ' :' . , &' 7 ' / .)*7.')1' ' :' . , &' 2 / 0:')9' * / 5' +&)101.&/ .' +)&112)&' ' :' *' , 0(, -' ')(*/ 0_&5' * / 5' 3& ' +*05' 5&+*) . 9 &/ .' ' :' . , &' .*&')' 6010' / ' 01' * 1'' 9 *5&' :')' . , &')&(2 *.0' / ' * / 5')&+)&110' / ' 4-' .*H*.0' / ' ' :' . , &' 21&' , 0. , &). ' ' [20.&' 2 /)&1.)07.&5 ' ' :' 127 , ' 0 / . ' H07*.0 / (' 5)2(1' *1' (* / J* ' >7 ' 3 , 07 , ' *)&' , 0(, -' 0 / J2)0' 21' 4 ' . , ' . '' . , &' 9 ')* ' * / 5' . '' . , &' +, -107* ' 3& @4&0 / (' ' :' . , &' +&' + &' " ' ' ') ' "' ' /' . , &' -&*)' ;:@ ' . , &' * 9 ' 2 / .')&* 0_&5' 4-' . , &' *4C*))-' . ,)' 2 (, ' 2.' . , &')&105&/ 7-' 3*1' 0.. &' '6&)' .3 '' *C , 1' ' :')2+&&1 ' 42.' 0 / ' ;$@ ' 0.' , *5')01&/@ .' ' 2+3*)51' ' :' 10H' *C , 1' * / 5' 52)0 / (' . , &' :' ' 30 / (' . ,)&&' -&*)1' 0.')' 1&' . '' / &*) -' / 0 / &' *C , 1' ')' 9' . , *.' -&*)' 2+' . '' @ ' 3 , &/ ' . , &')&6&/ 2&' 1. ' ' 5' . ' 2+3*)51' ' :' *C , 1' . , &)&' 3*1' *' 1.&*5-' * / / 2* ')01&' &H7&+.' 0 / ' "@ ! ' 3 , 07 , ' 3*1' *' -&*)' ' :' 17*)70.-' * / 5@ 3 , &/ ' *' 7 , &7C' 3*1')&7&06&5' 3 , 07 , ' *1.&5' : ')' . , &' :06&' : ' 30 / (' -&*)1' / ' @ ' . , &' *6&)*(&' +)07&' ' :' / / , 21C&5')07&' ' :' . , &' 1&7' / 5' 1') . ')1&' : ')' 9 ' ## 1&&)1' . '' " ! ' 1&&)1' +&)')2+&&' * / 5' 0 / ' . , &' : ' 30 / (' -&*)' . '' # 1&&)1 ' G2)0 / (' . , 01' +&)0' 5' 772))&5' *' 6&)-' 1&)0' 21' : * 90 / &' 0 / ' % ' ' / . ' ')' * / 5' . , &' ' . , &)' / '). , &) / 501.)07.1' * / 5' . , &' &::&7.1' 3&)&' *.' ' / 7&' 60104 &' ' / ' . , &' *4C*))-' 7' &7.0' / 1' 3 , 07 , ' :&' ' :)' 9' ' *C , 1' . '' # *C , 1' * / 5' . , &/ ' . '' 0.. &' '6&)' '" *C , 1' , ' 2 (, ' +)07&1' :& ' 1241&[2&/ . -' . '' . , &0)' : ') 9 &)')*.&1' . , &' *4C*))-')&6&/ 2&' 505' / ' . ')&7' 6&)' .0 ' . , &' -&*)' " @" ' 3 , &/ ' 0.' 1. ' ' 5' *(*0 / ' *.' *' 0.. &' 2 / 5&)' ' *C , 1' ')' 9' . , 01' -&*)' 2+' . '' !!@!#' 3 , &/ ' . , &')&6&/ 2&' . ' 27 , &5' 0' *C , 1' . , &)&' 3*1' *')&(2 *)' 0 / 7)&*1&' -&*)' 4-' -&*)' &H7&+.' 0 / ' . , &' . 3 '' -&*)1' ' :' 17*)70.-' "#@"$' * / 5' !"@!!' , &' *4C*))-')&6&/ 2&')' 1&' :)' 9' . , &' :' *C , 1' / ' . &5' *4' 6&' . '' 2+3*)51' ' :' ;' *C , 1' 0 / ' #;@# ' . '' / &*) -' " ' *C , 1' 0 / ' #!@## ' * / 5' . '' / &*) -' # ' *C , 1' 0 / ' # @$;' /' . , &1&' :' 2). &&/ ' -&*)1' . , &')&6&/ 2&' 0 / 7)&*1&5' / &*) -' . ,)&&:' 5' , &' ()&*.&)' +*).' ' :' . , &' 0 / 7)&*1&' 3*1' 6)0 / (' . '' . , &' &/ , * / 7&5' .*H*.0' / ' ' / ' 1+0)0.2 ' 21' * / 5' :&) 9 &/ .&5' 0[2 ')1')&12 .0 / (' :') 9 ' . , &' C&&/ ' 7 ' 9 +&.0.0 ' / ' * 9 ' / (' *4C*))-' :*) 9 &)1' *.' . , &' 50::&)&/ .' *27.0 ' / ' 1* &1' 42.' 0.' 3*1' * 1'' 52&' . '' 0 / 7)&*1&5' 7 ' / 12 9 +.0 ' / ' / $!@$#' . , &' *4C*))-')&6&/ 2&' * 9 ' 2 / .&5' . '' #!' *C , 1' / ' . , &' .3 '' :' 30 / (' -&*)1' 0.' 5&7)&*1&5' ' / ' . , &' *6&)*(&' 4-' / &*) -' :' 0:.&&/ ' *C , 1' ' 30 / (' . '' . , &' :* 90 / &' ' :' $#@$ ' / ' $ @$ ' 0.')&7' 6&)&5' . '' / &*) -' # ' *C , 1' , &' *7.2*' 7 ' &7.0' / 1' 10 / 7&' $;' , *6&' 4&&/ ' *1' 2 / 5&)^

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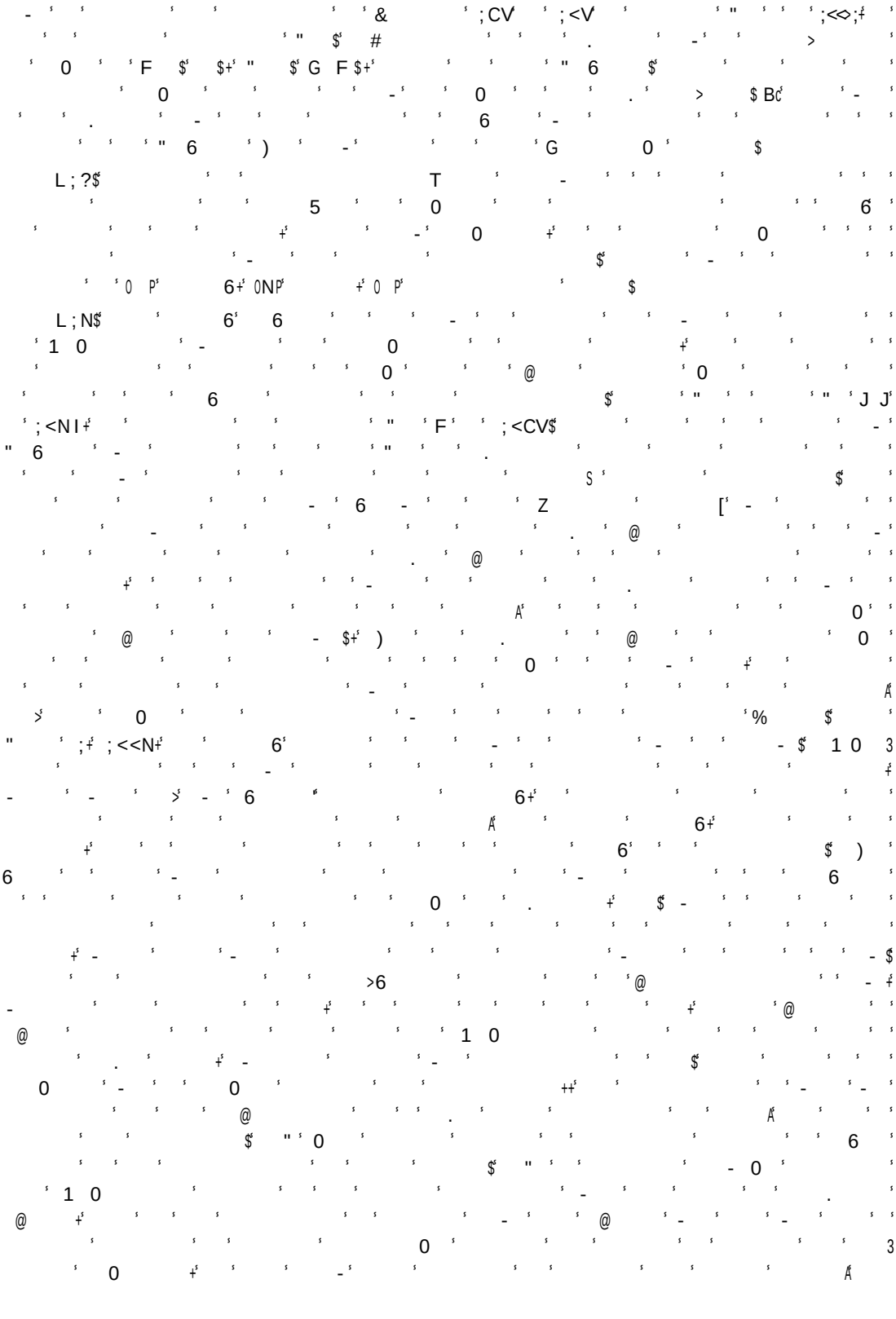
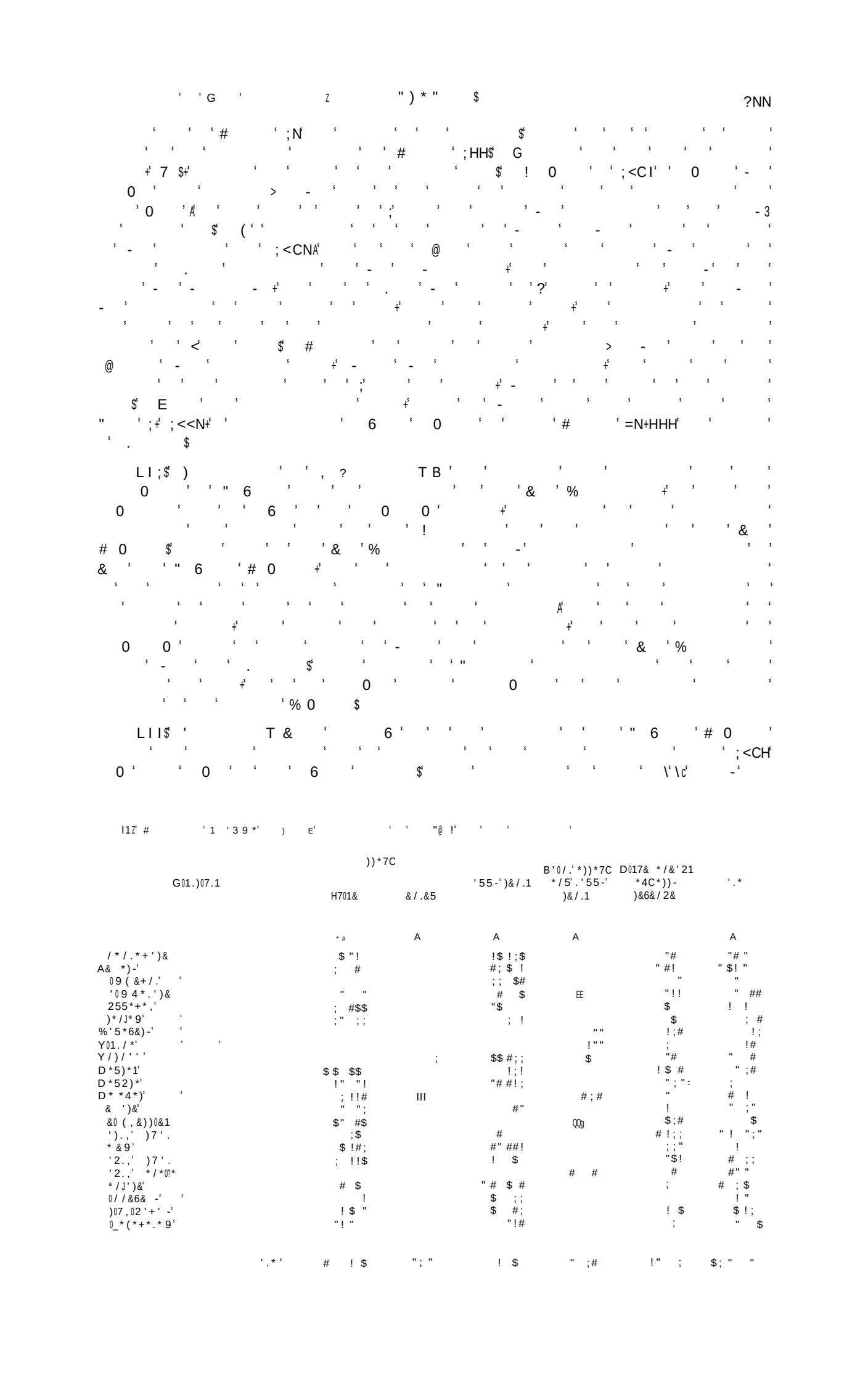
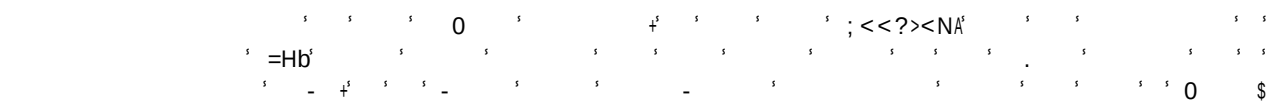
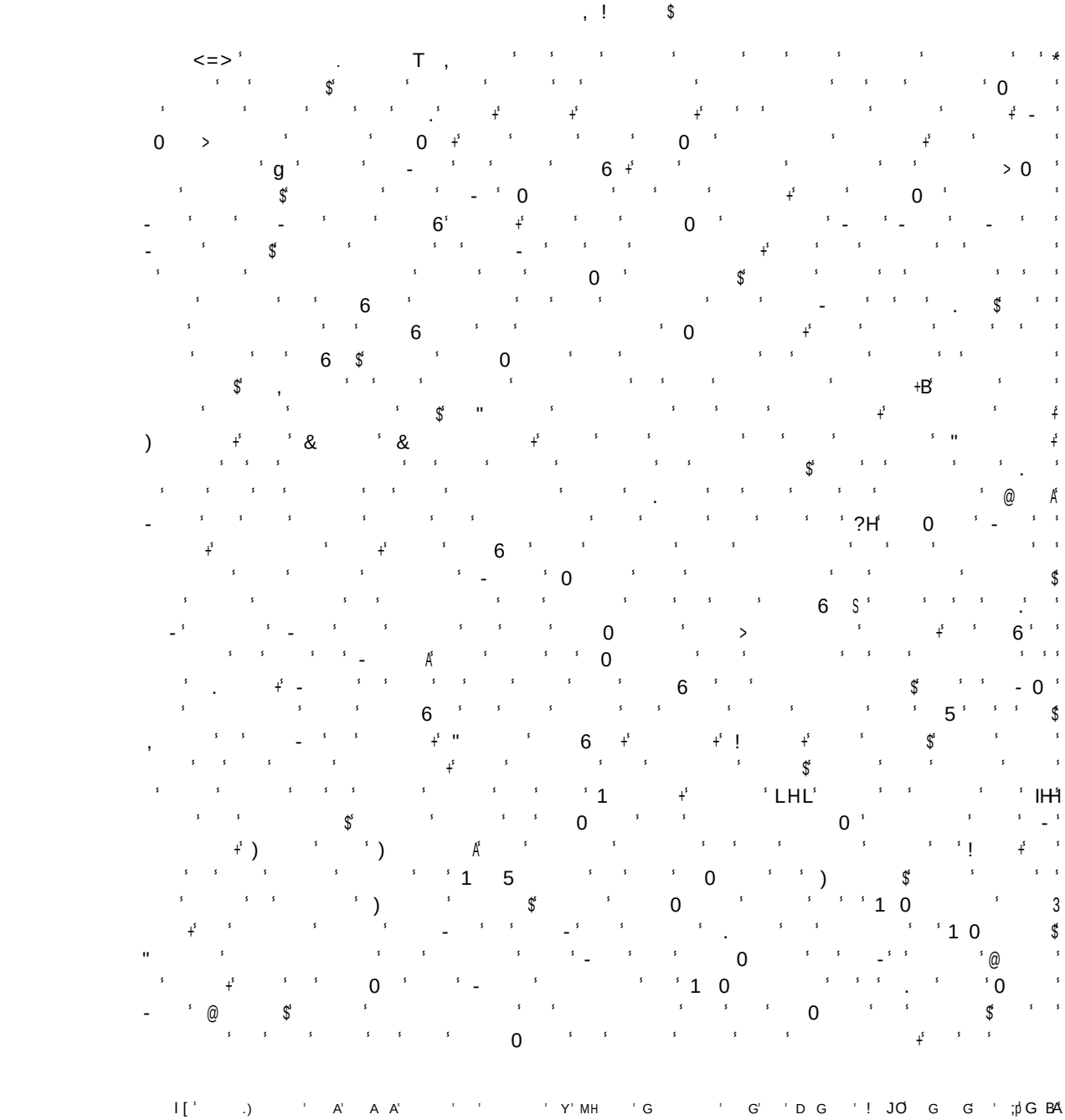
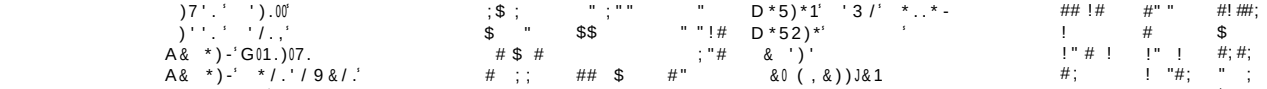


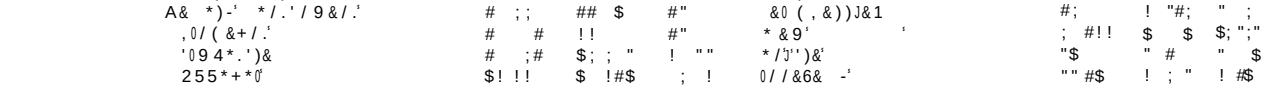
Z * . R /5&) /50* 7.M M ! &7.0'/'# 4C*))-'D*5)*1'.'3/ .,&D'3P 0/('D6& .,&:')7&' *3'^ &7.0'/' &).*0/'.)*7.'&H7 25&5' *1')&(*)51'.,&'1*&' *))*7C:)'/ 242)41' D*5)*1 *1'5&:0/&5'0/' &7.0'/'"; &6&/2& '.0:07*.0'/1'5*.&5')5'B2/&' +24 01,&5'0/'.,& ').' .'%&')(&'%*_&..&'5*.&5'$.,'B2 -' $ ' &7.0'/'#' '/50.0'/1''' 07&/1&1':')'.,&')&.*0'1*&''4&&)'30/&'*/5' 2)'+&*/'1+0)0.1'00J .,&.'3/'':D*5)*1@ '.0:07*.0'/''':'A'*)5''' &6&/2&'0/'.,&' ').' .'%&')(&'%*_&..&'5*.&5'$.,'B2 -' $"' &7.0'/'#' ')91''' 07&/1&1':') *))*7C'*/5'.'55-'1,'+1'+)&17)04&5'4-'.,&'A'*)5''' &6&/2&'0/' # '*/5' $"' +5&:' /50*' 7.'JF''' # ' &7.0'/' &H701&''/'1+0)0.1'21&5'&H7 2106&-'0/' 9*/2:*7.2)&1 '.,&':'0'@30/(',*6&.,&:')7&''' *3'^ "' 2&1 &6&/2&A'*)5-1 .*/50/(')5&)' ' / 5&)'D*5)*1' 7.' '':' #"' &7.0'/1'1'*/5' 4C*/@-' 7. .,&:' '30/(',*6&.,&:')7&'' *3'^ ! &7.0'/'! &601&5':')91''':'07&/1&1'+)&17)04&5'4-'.,&'A'*)5':' &6&/2&'02' '*/5' #' &7.0'/' '9& 9*/2:*7.2)&''':&)9&/.&5' [2')':')'\',/ ':05&'-5'9&1.07'7'/1 29+.0'/'5&7*)&5'0 &(*'../&11'07&/1&5'<0.,'7&).*0/'&H7&+.0'/1 &6&/2&'A'*)5-1 '.0:07*.0'/'5*.&5' :7,'B2 -' $ '0/'.,&' ').' .'%&')(&'%*_&..&'5*.&5' !.,' 2(21.' $' $' H&9+.0/('A,*5)*7,&*9'*/5' &C*+2 -'*''C1'0/'.,&'%'5*6&)-'G01.)07.':)'9'.,&'*4'6&'/'.0:07*.0'/ &6&/2&'A'*)5-1 '.0:07*.0'/'0/'.,&' ').' .'%&')(&'%*_&..&'5*.&5' "..'B2 -' $"' 2&1':)*9&5'4-'.,&'A'*)5''' &6&/2&' .*/50/( )5&)1' '1' /5&)'D*.>*1' 7.' ''':' $' 4C*))-' *31' 9&/59&/.' 7. '..,&':' '30/('',*1'.,&':')7&''' *3 &6&/2&' '.0:07*.0'/'4)0/(0/('.,&' 7.'0/.'''+&)*.0'/':)'9'.,&')5'B2/&' $ '+24 01,&5'02'.,&' ').' .'%&')(&'%*_&..& ':'.,&' 1.'B2 -' $

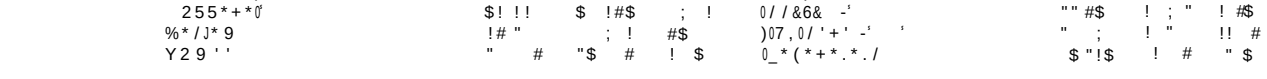


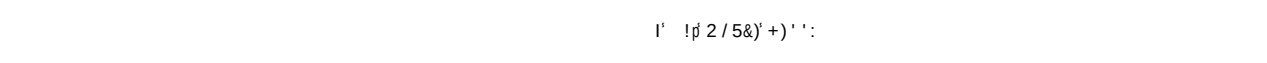


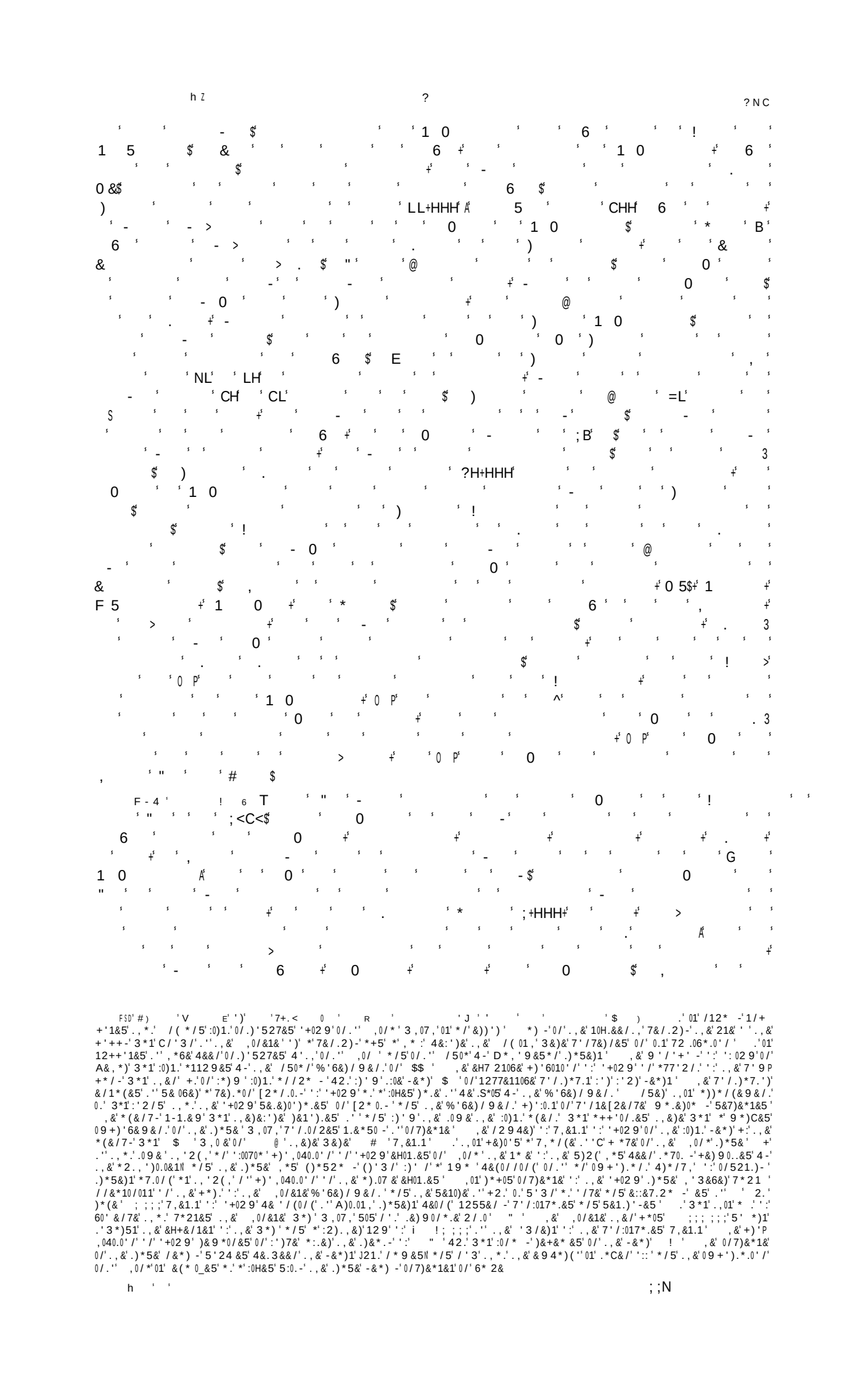


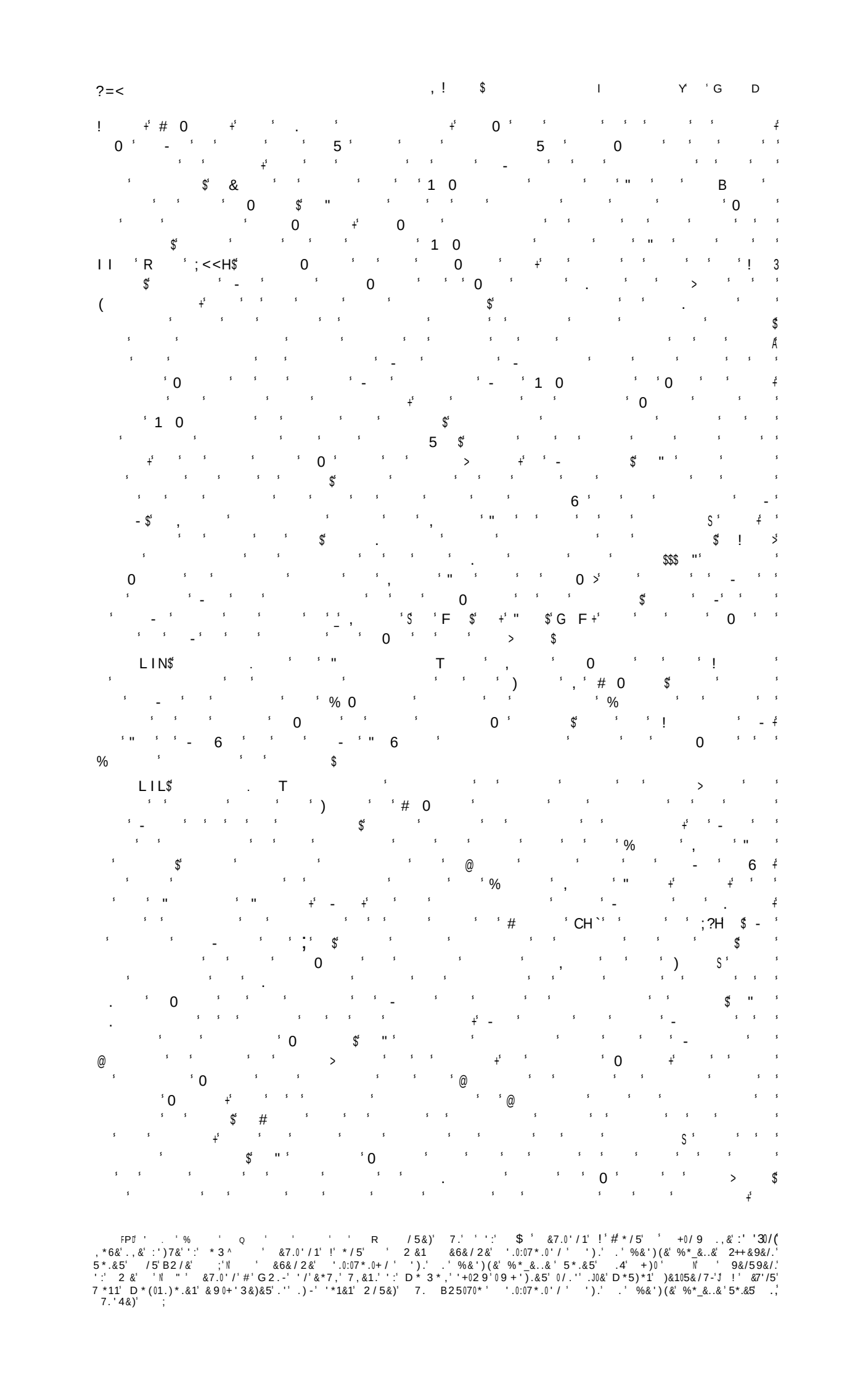


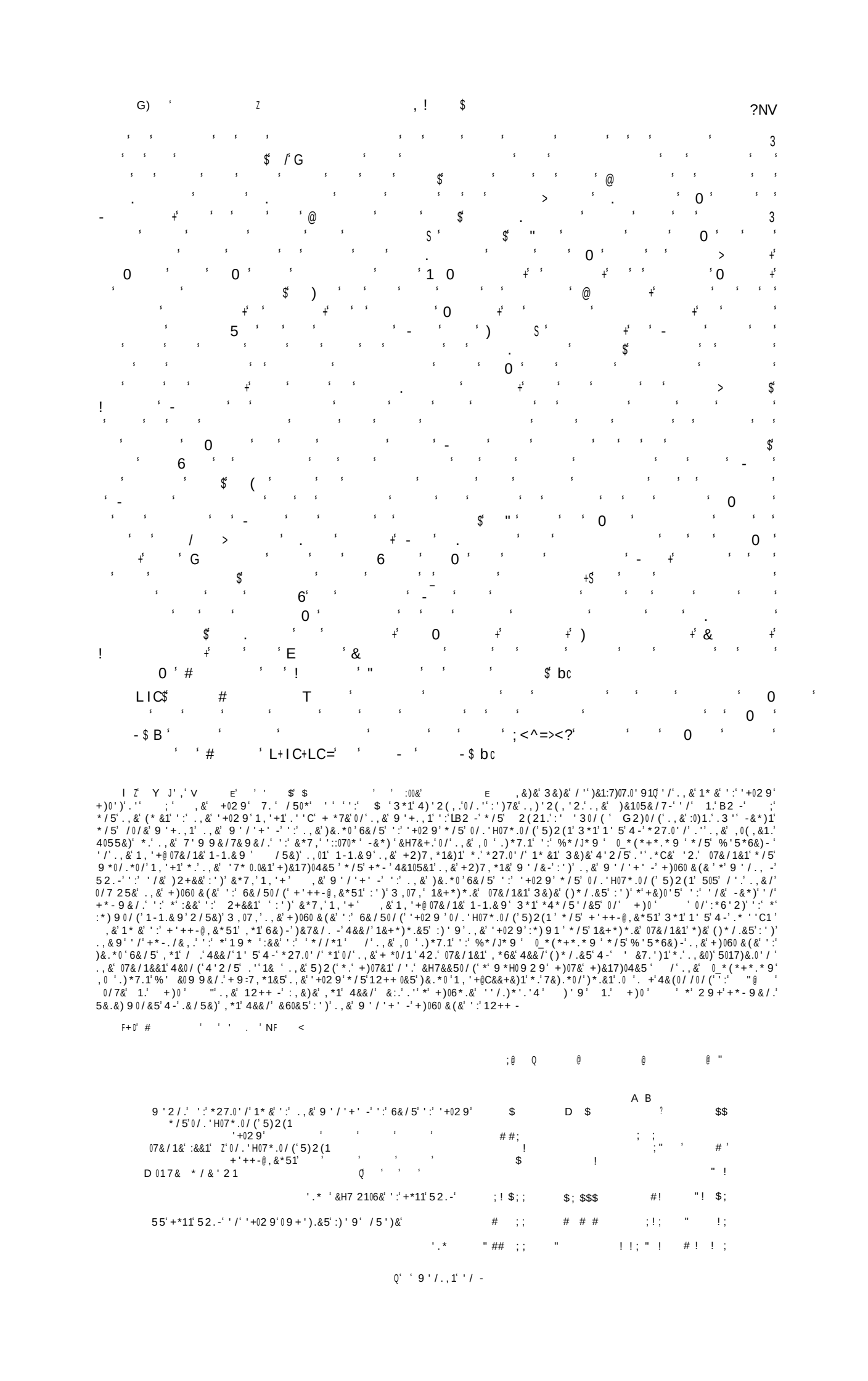












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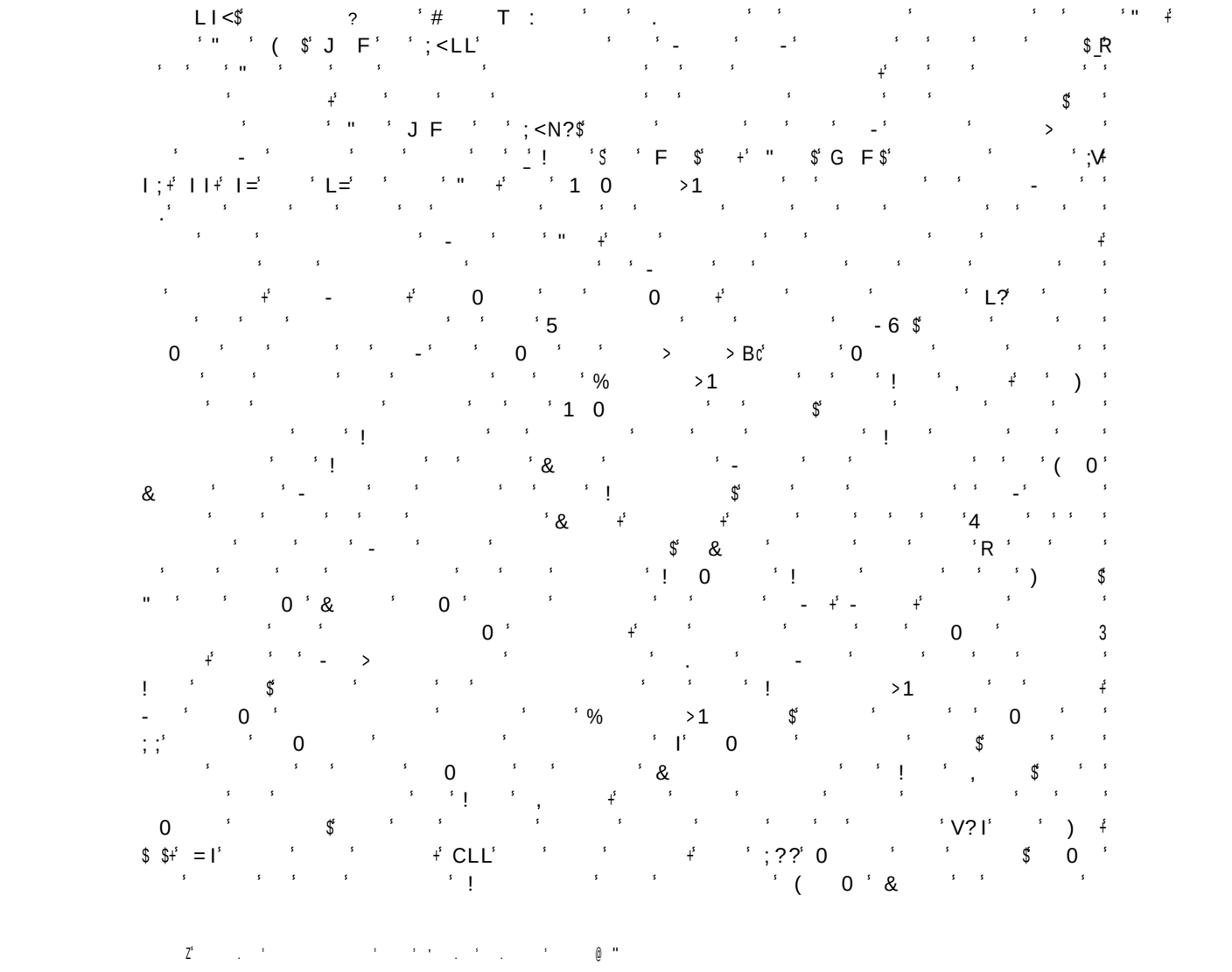

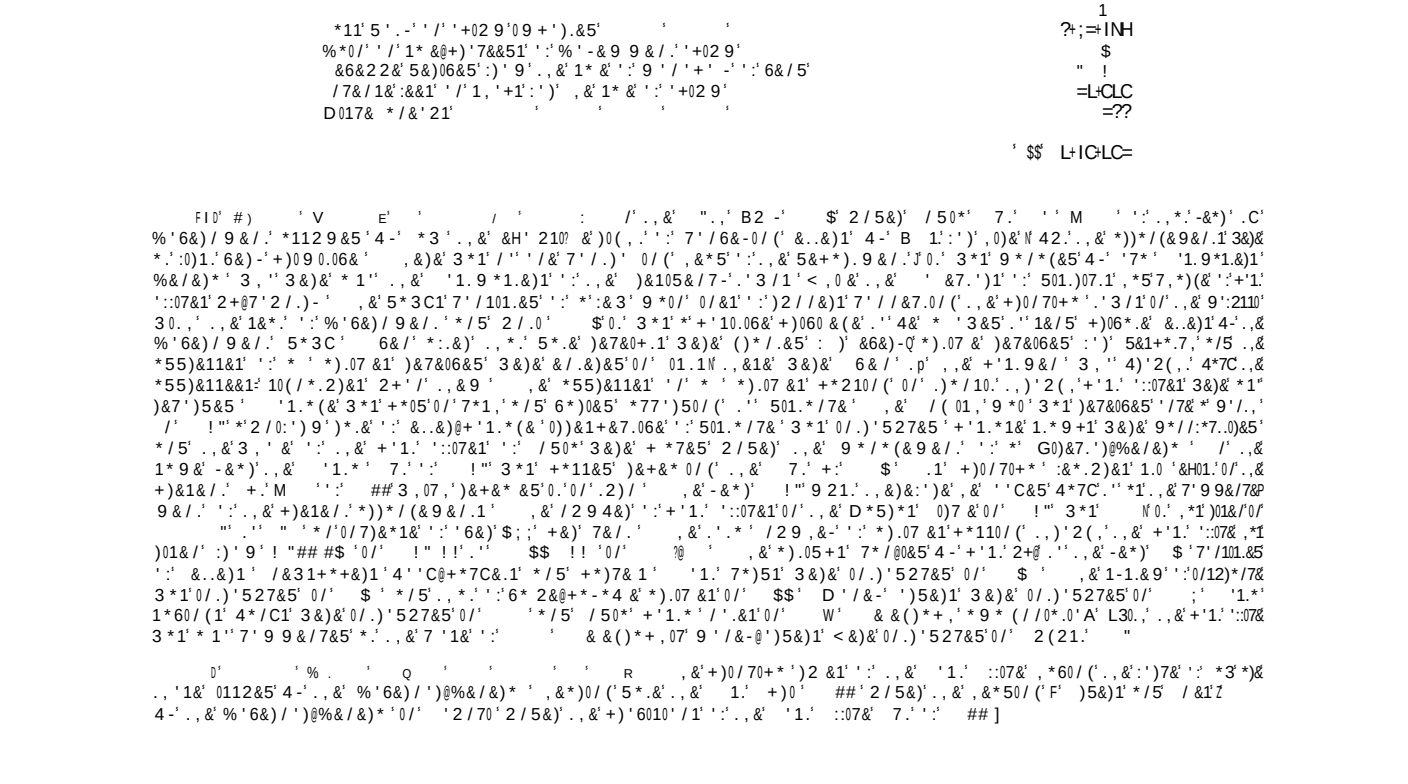

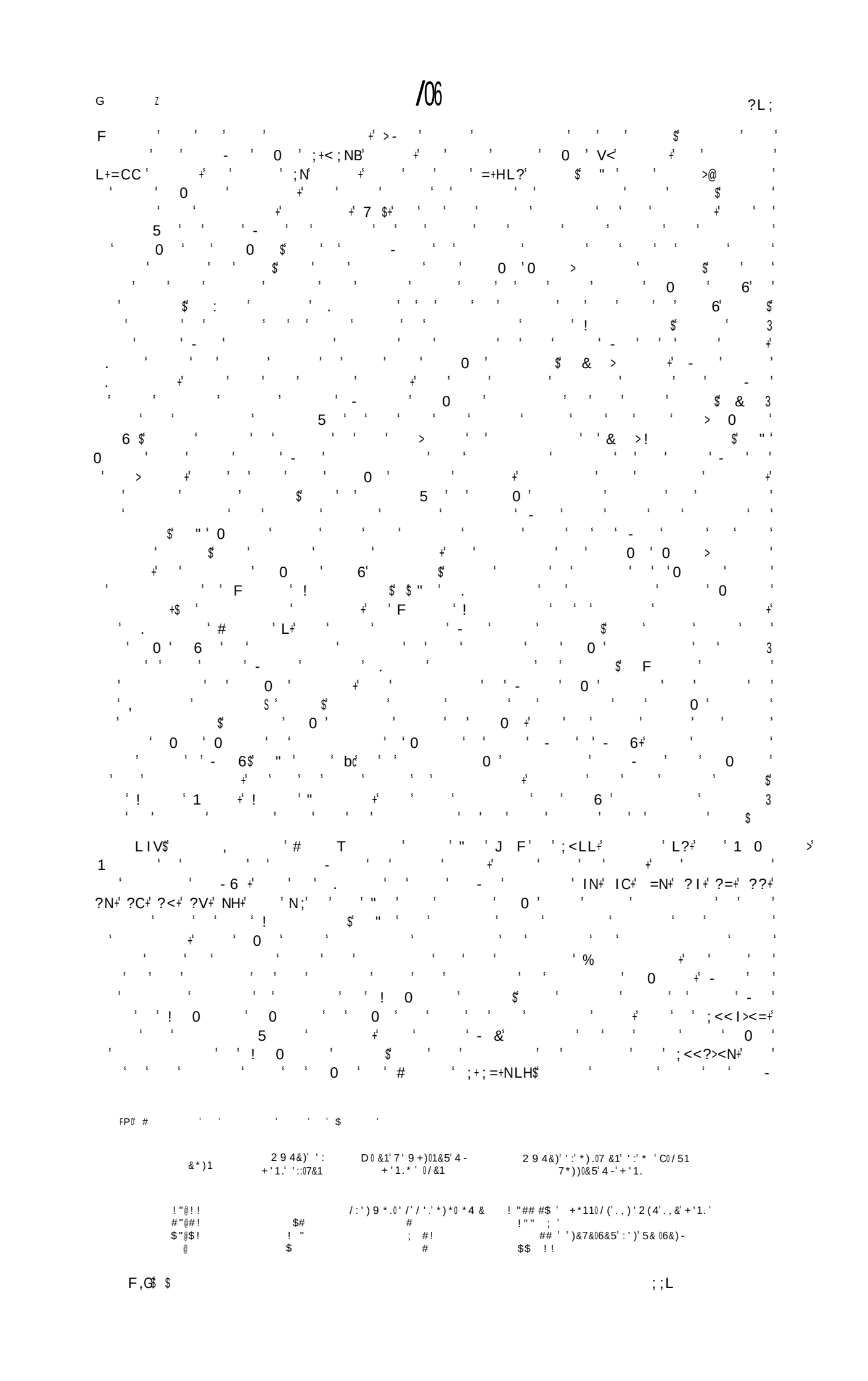

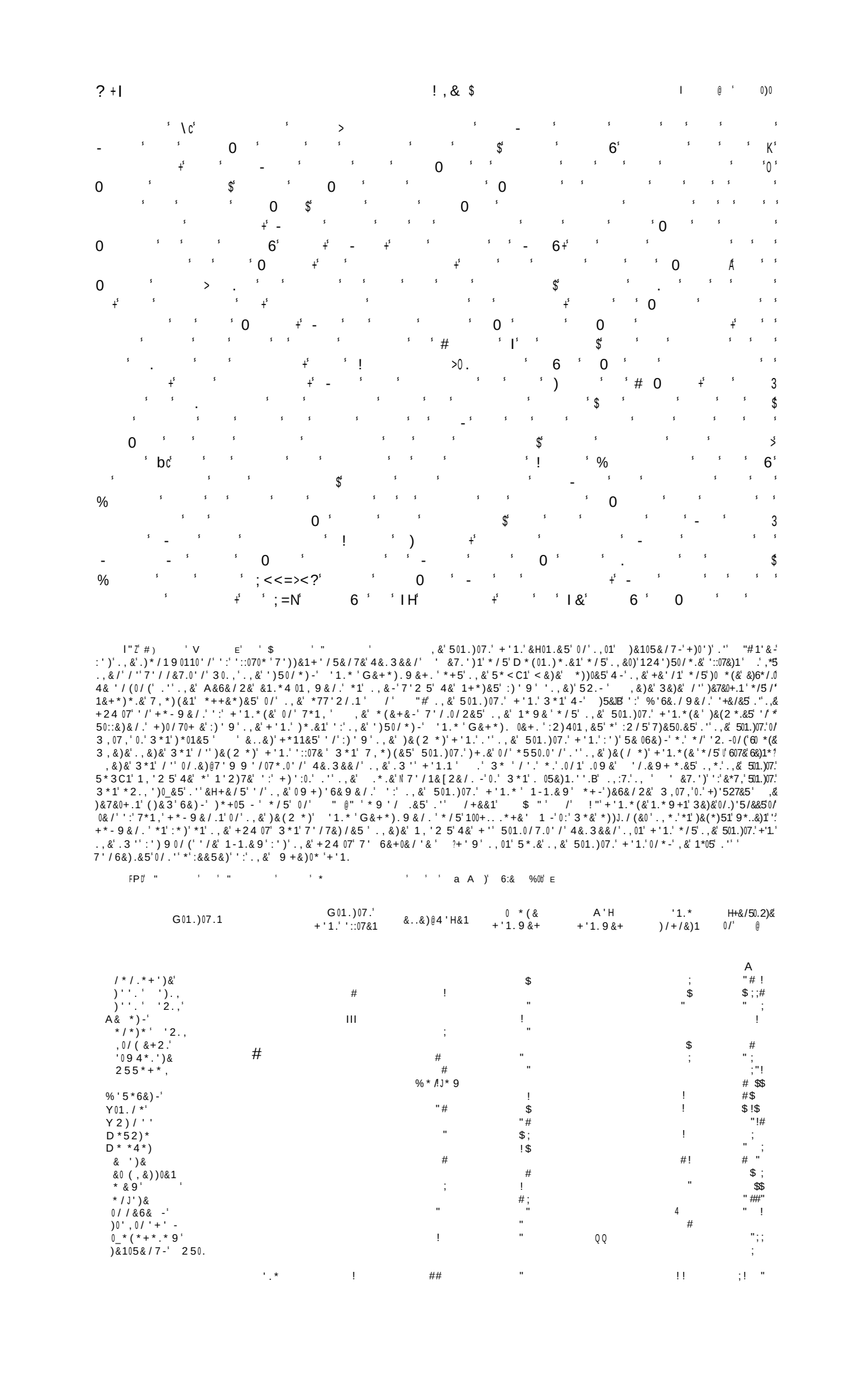

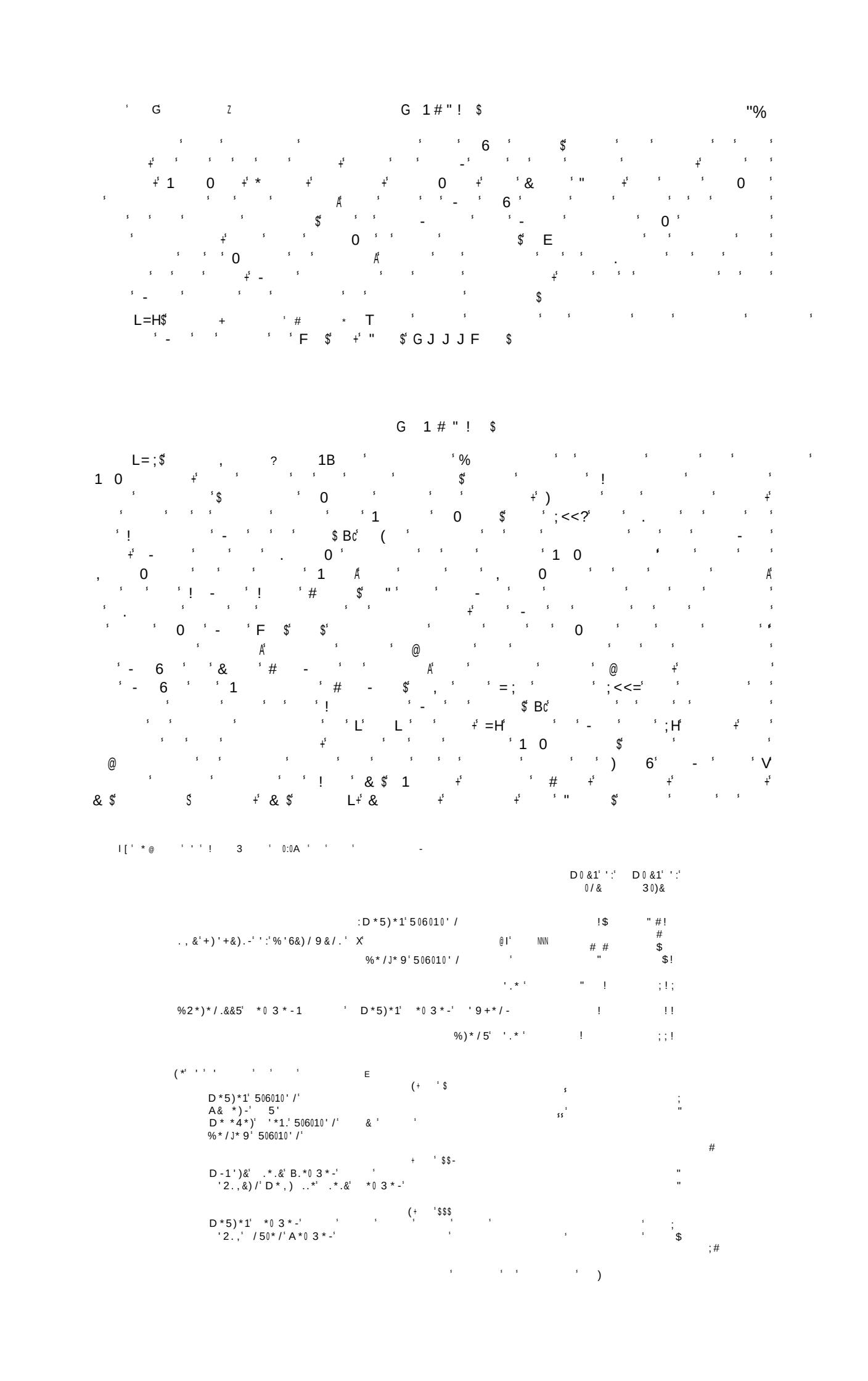

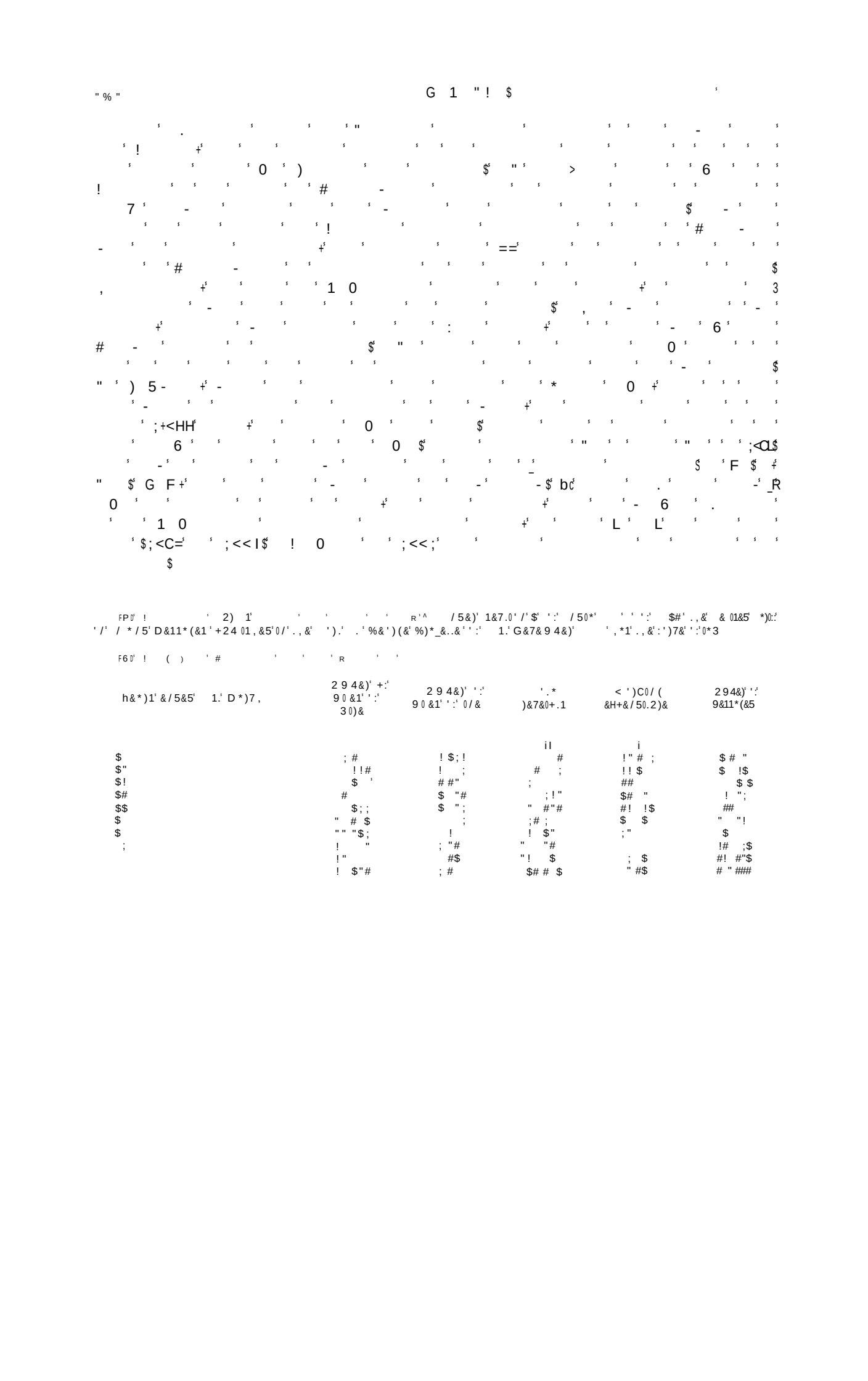

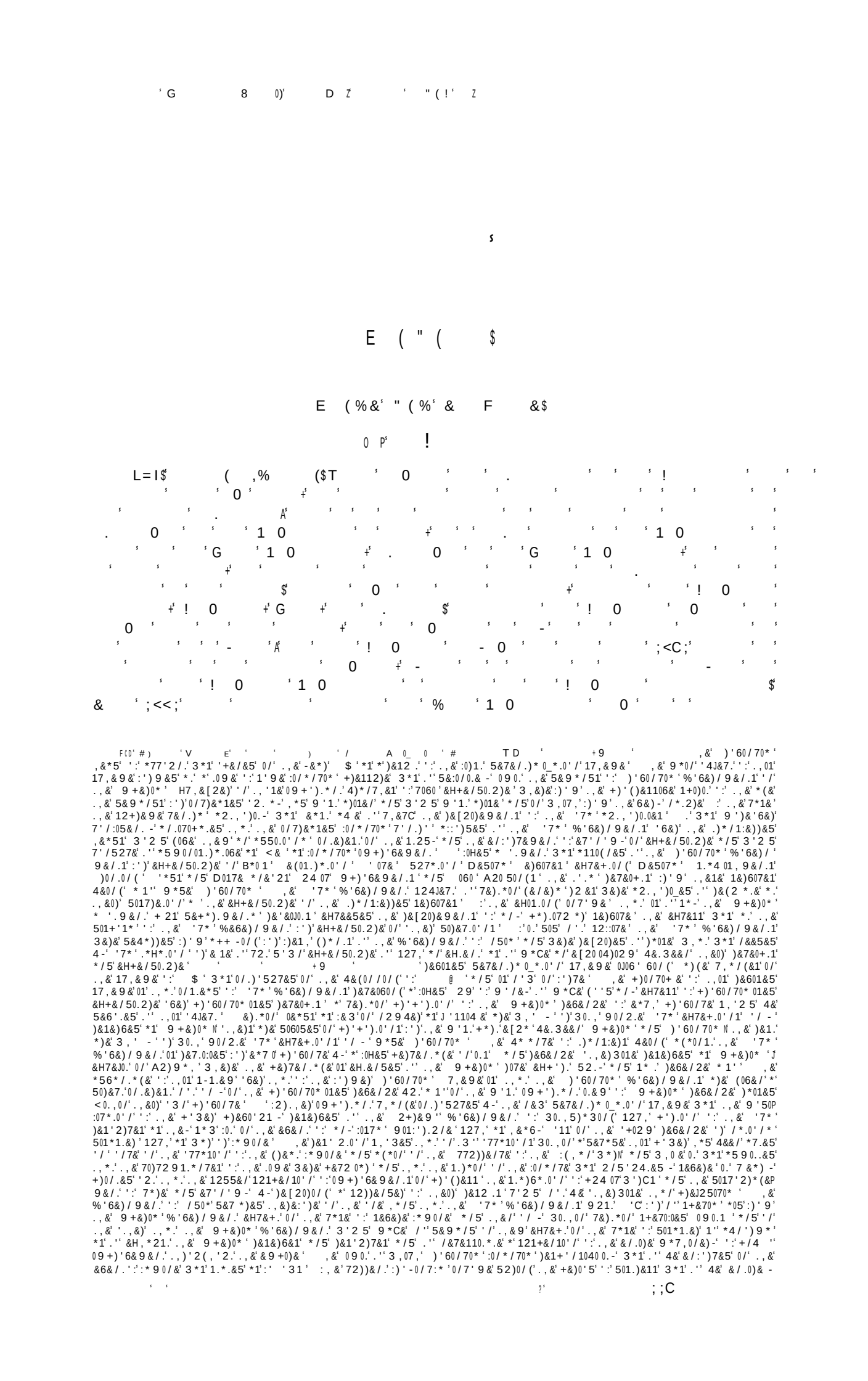

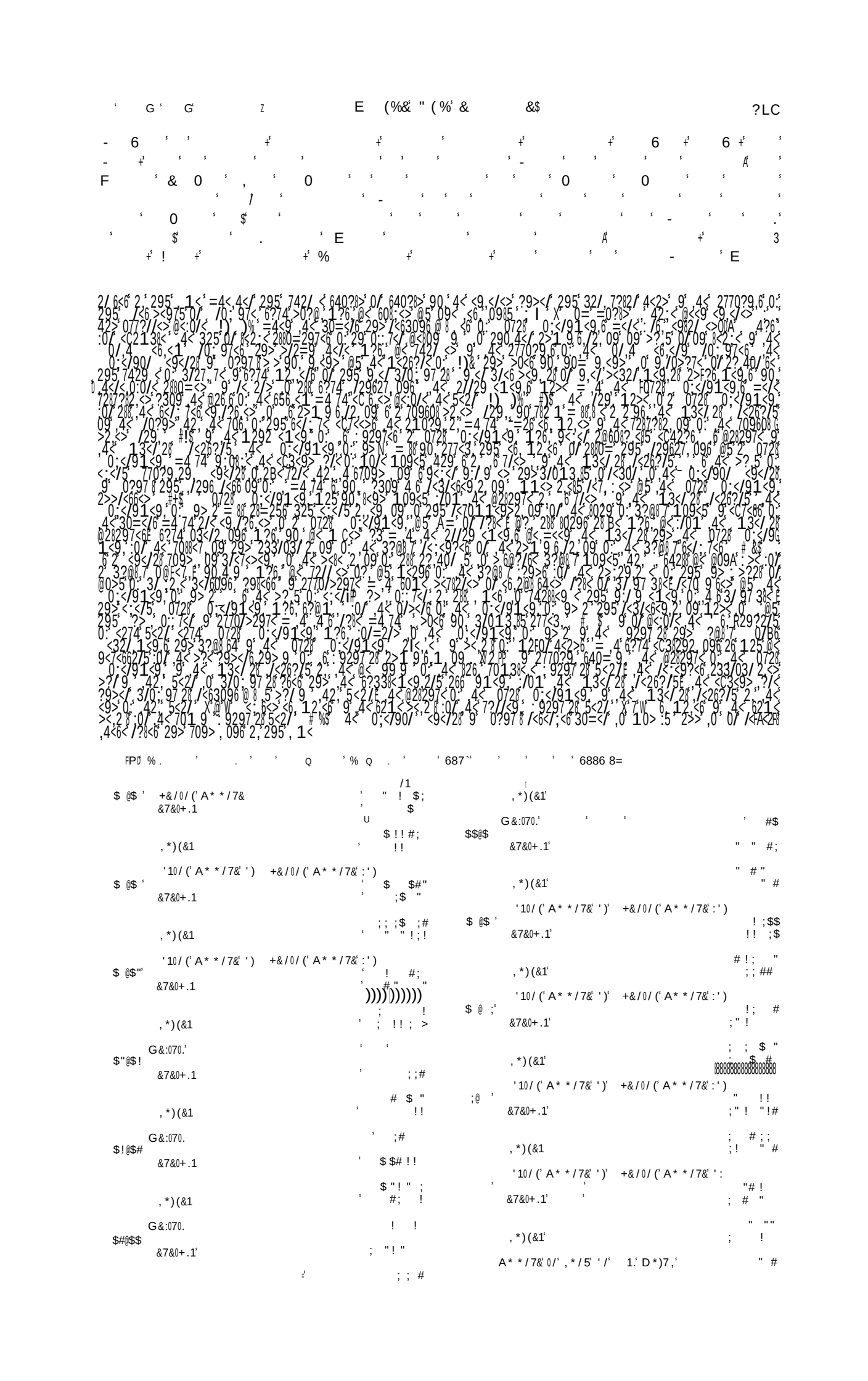

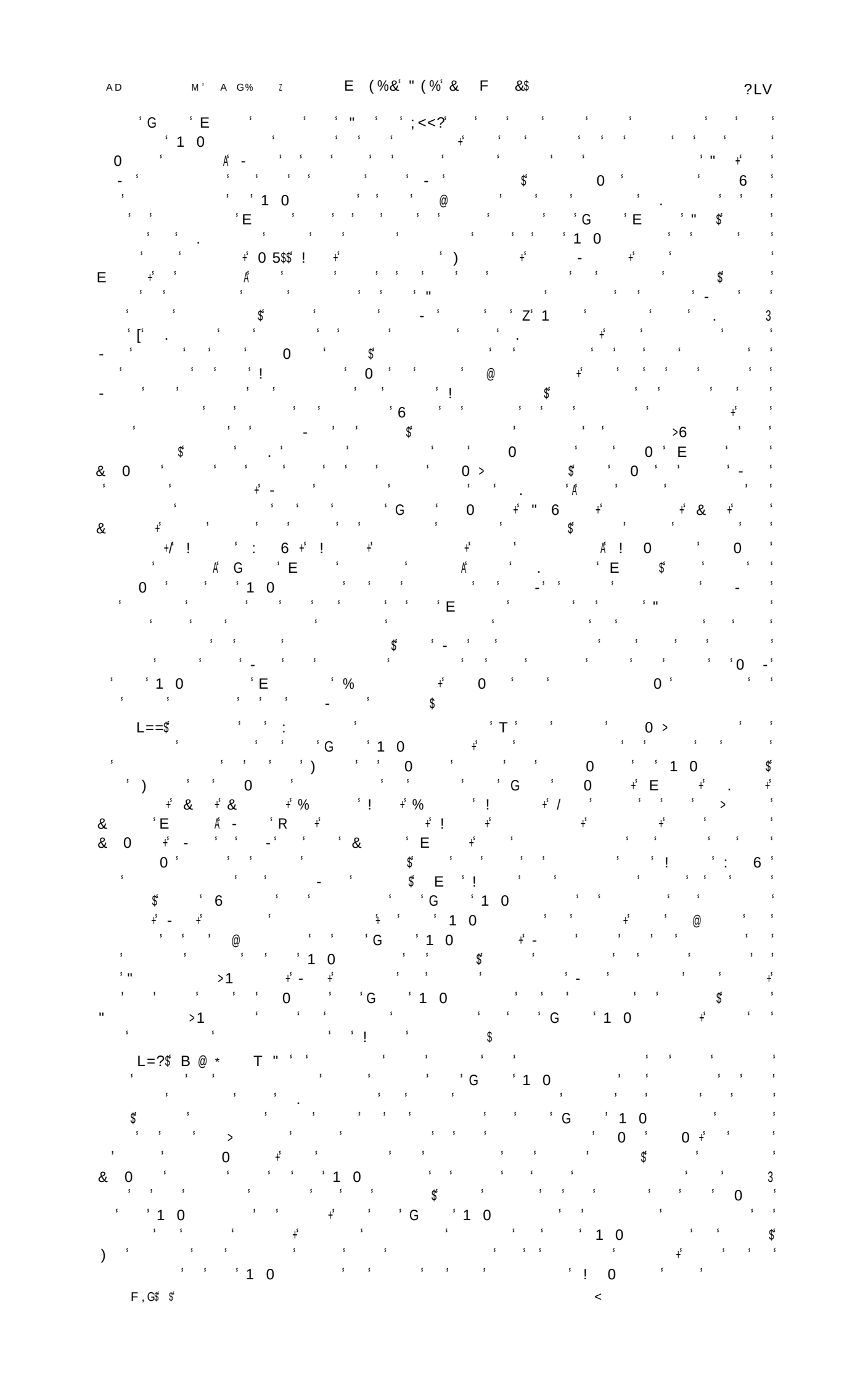

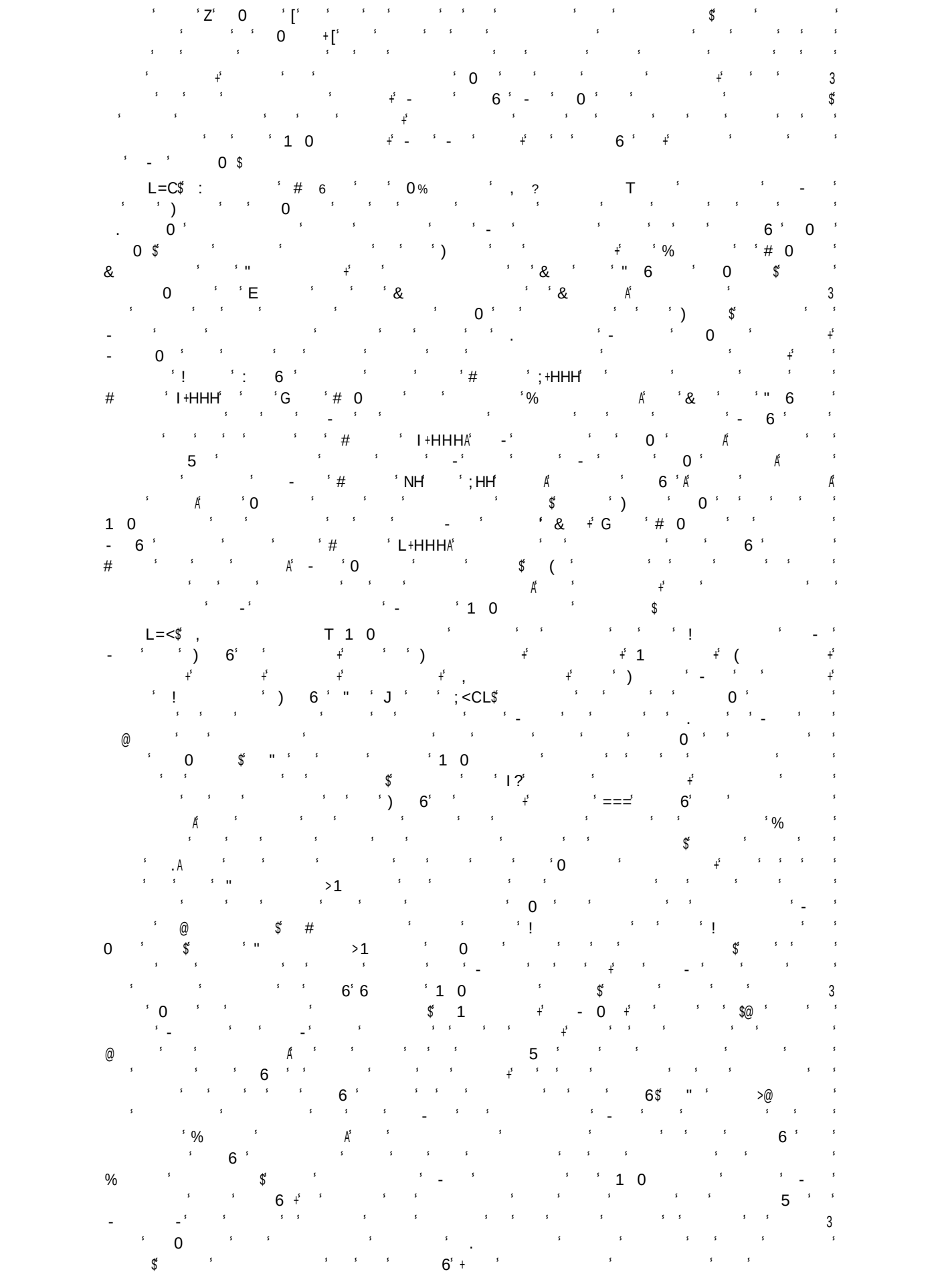

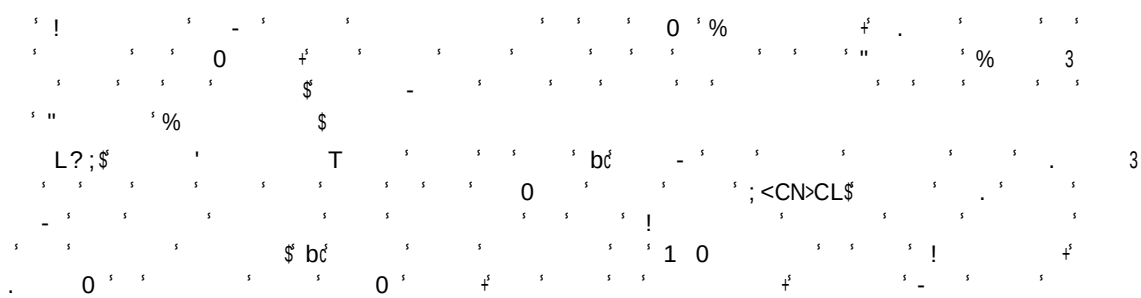

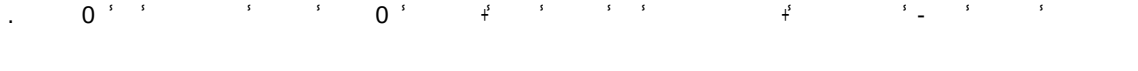

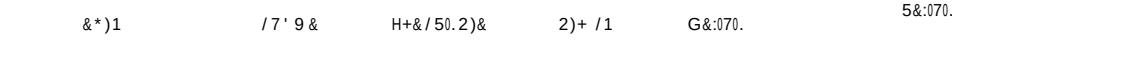

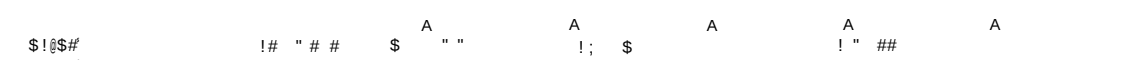

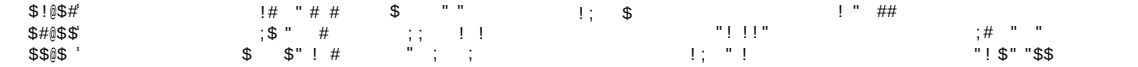

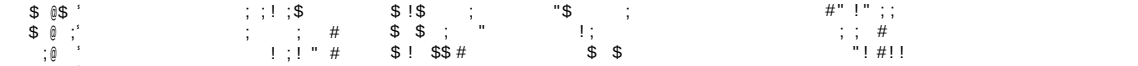

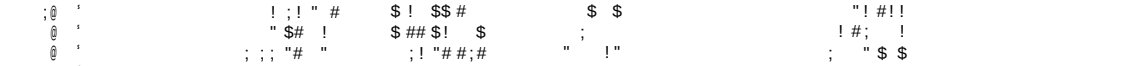

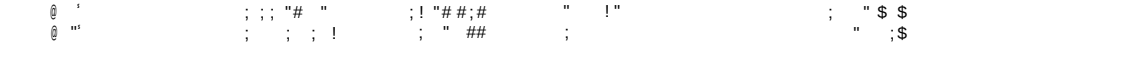

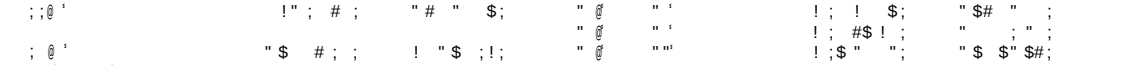

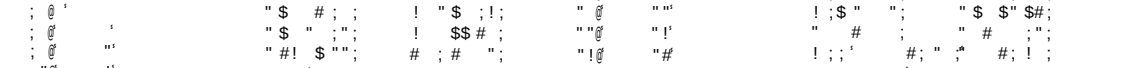

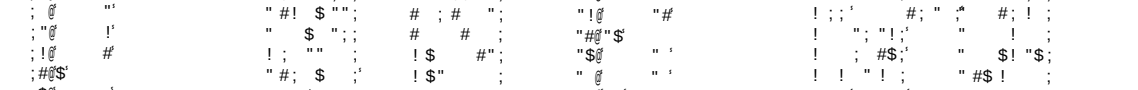

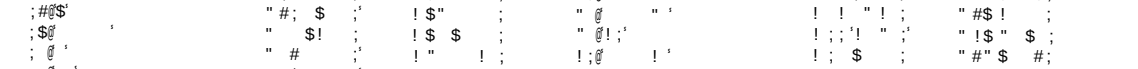

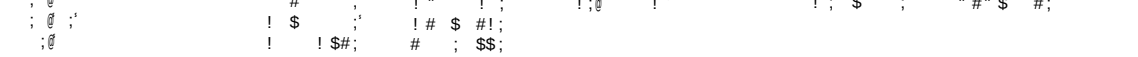

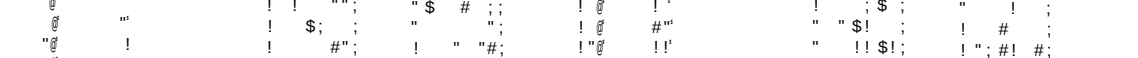

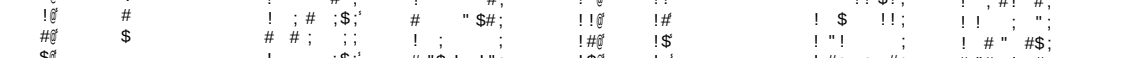

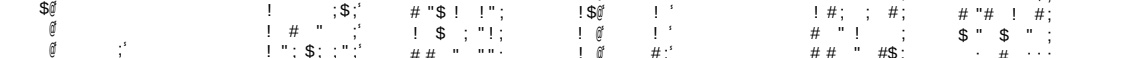

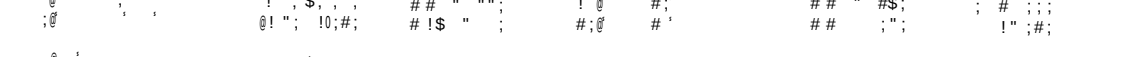

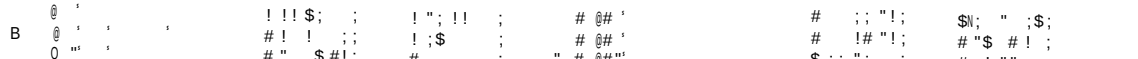

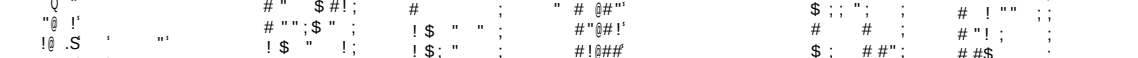

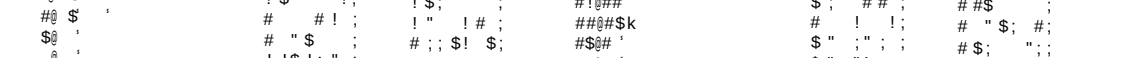

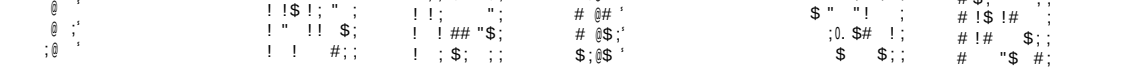

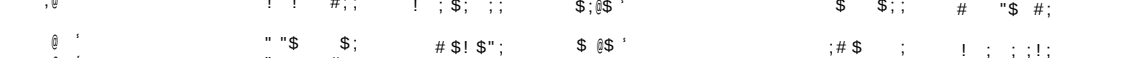

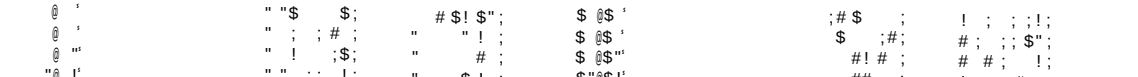

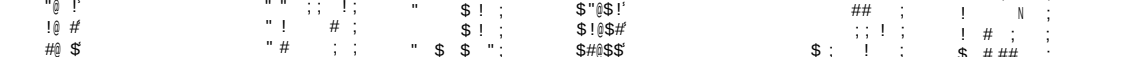

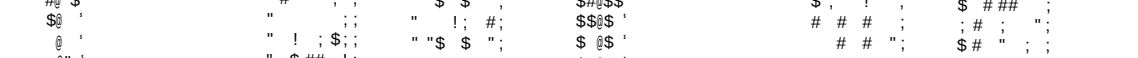

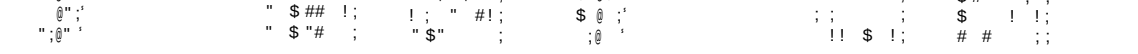

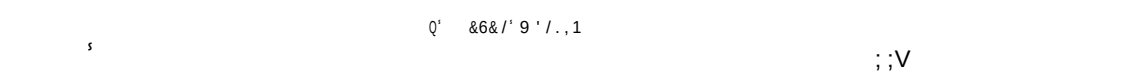

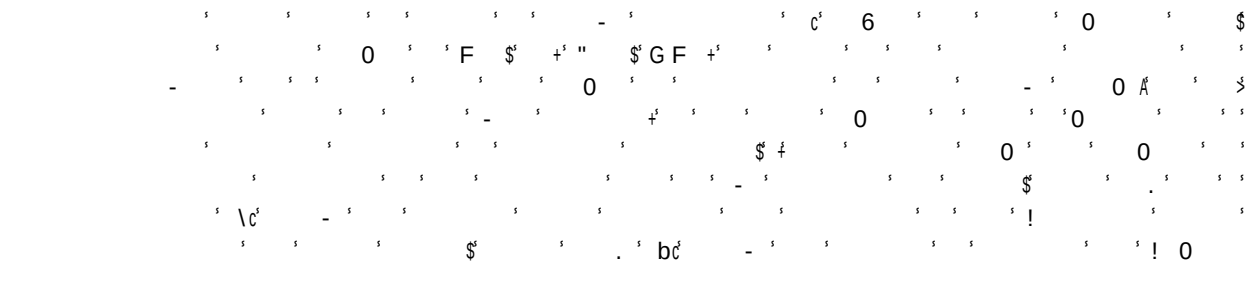

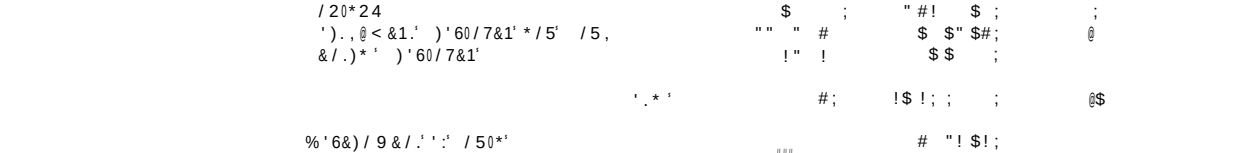

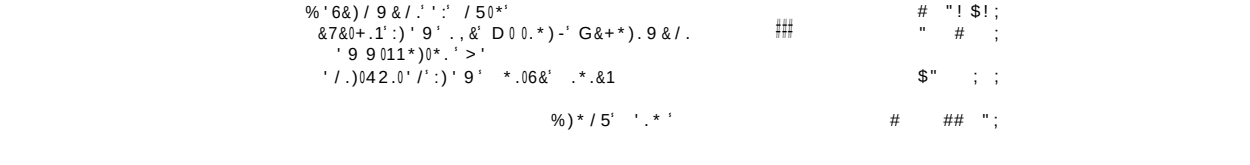

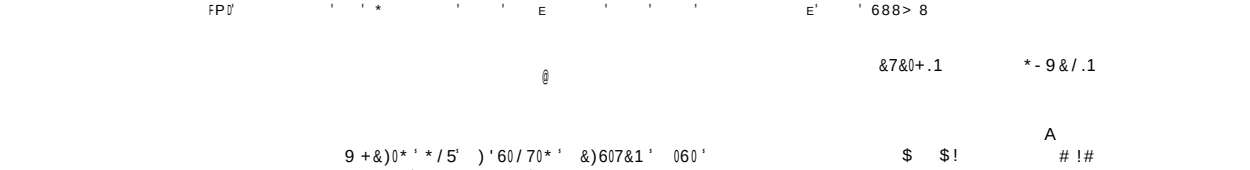

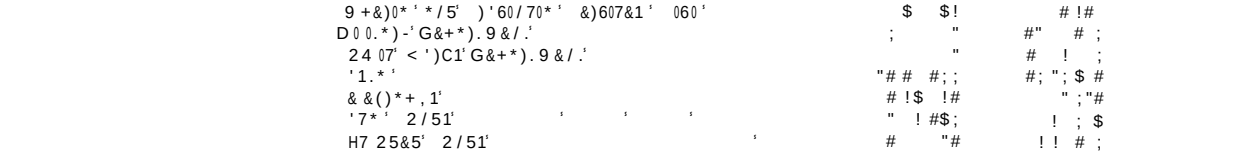

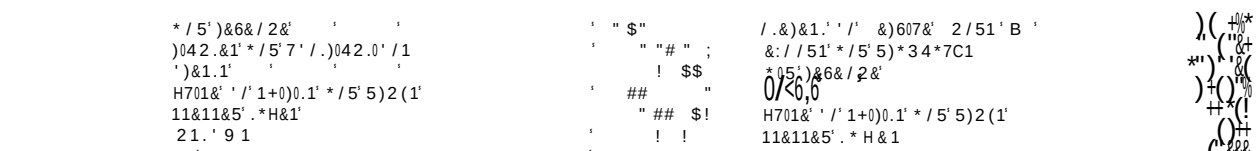

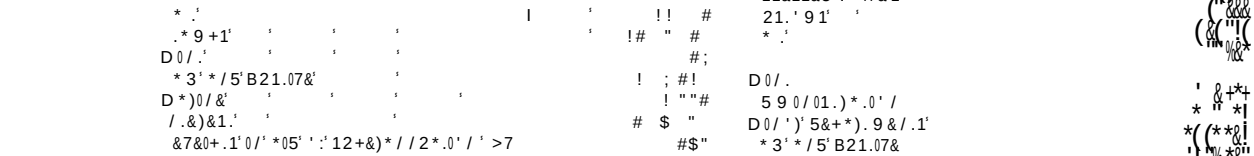

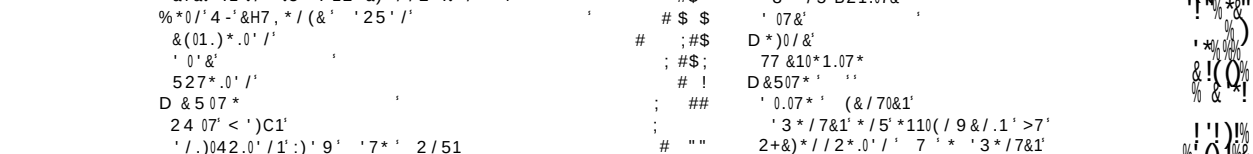

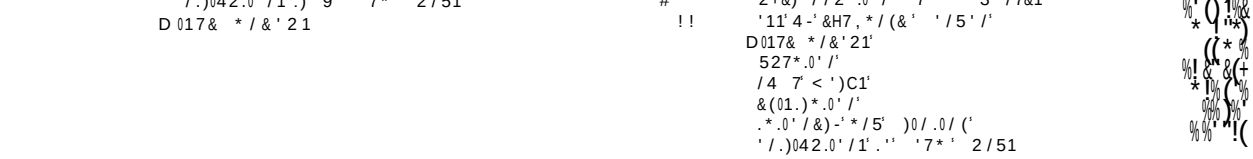

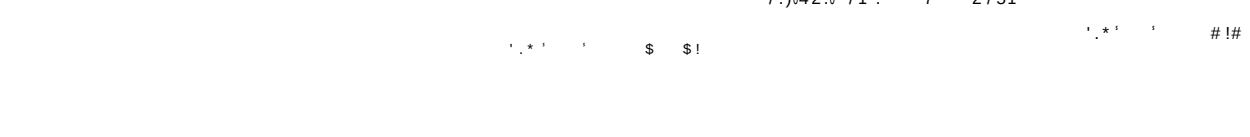

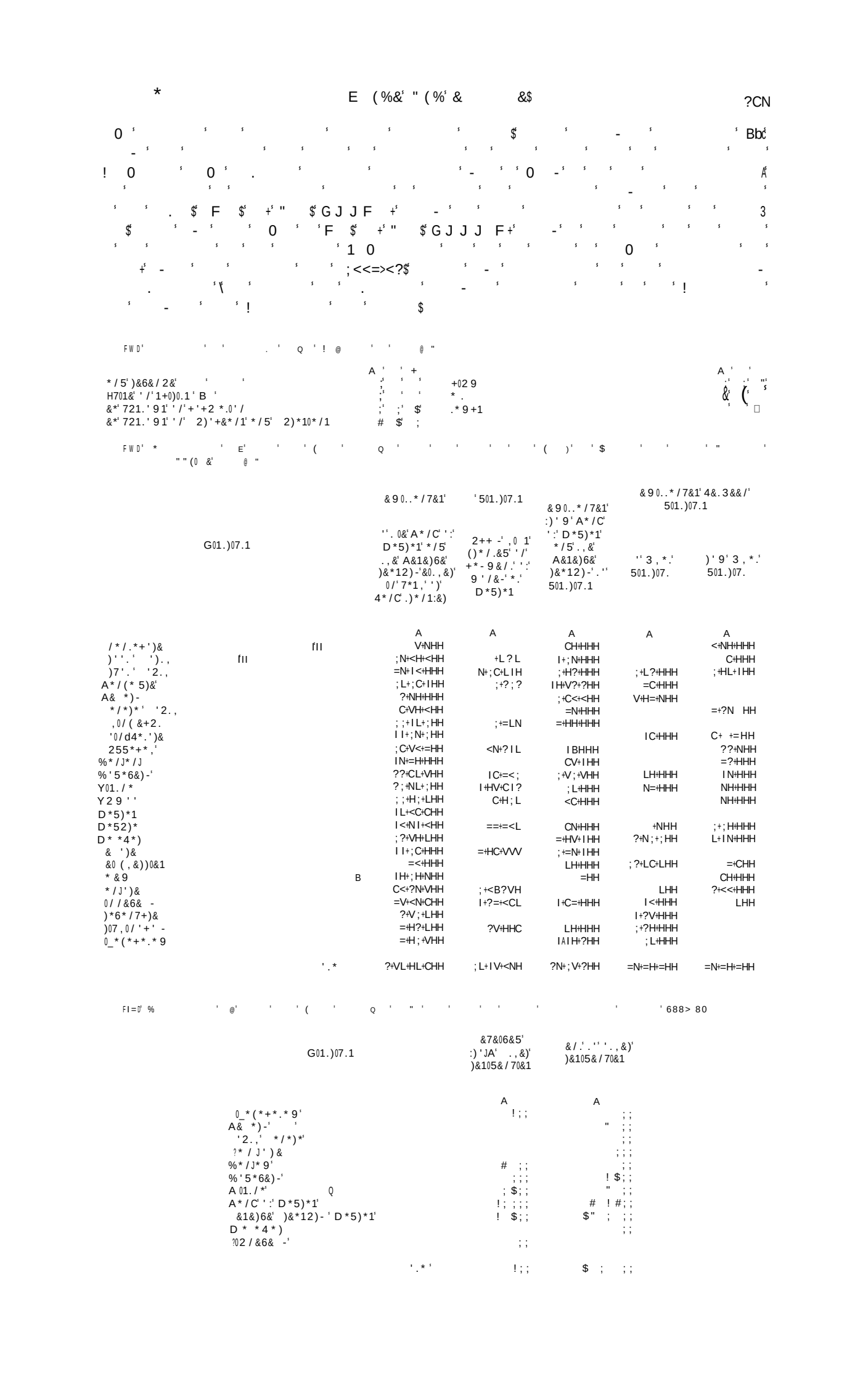

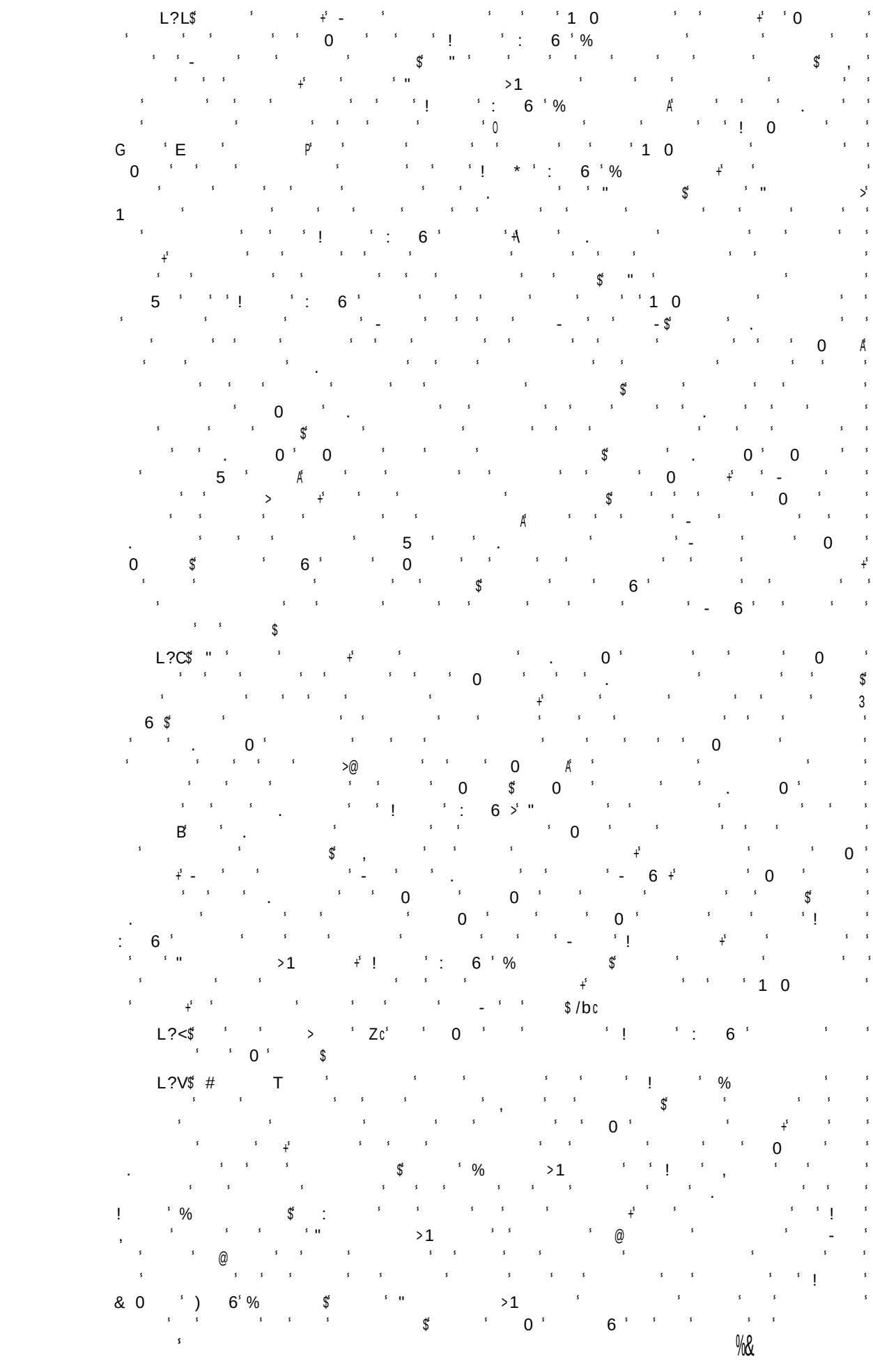

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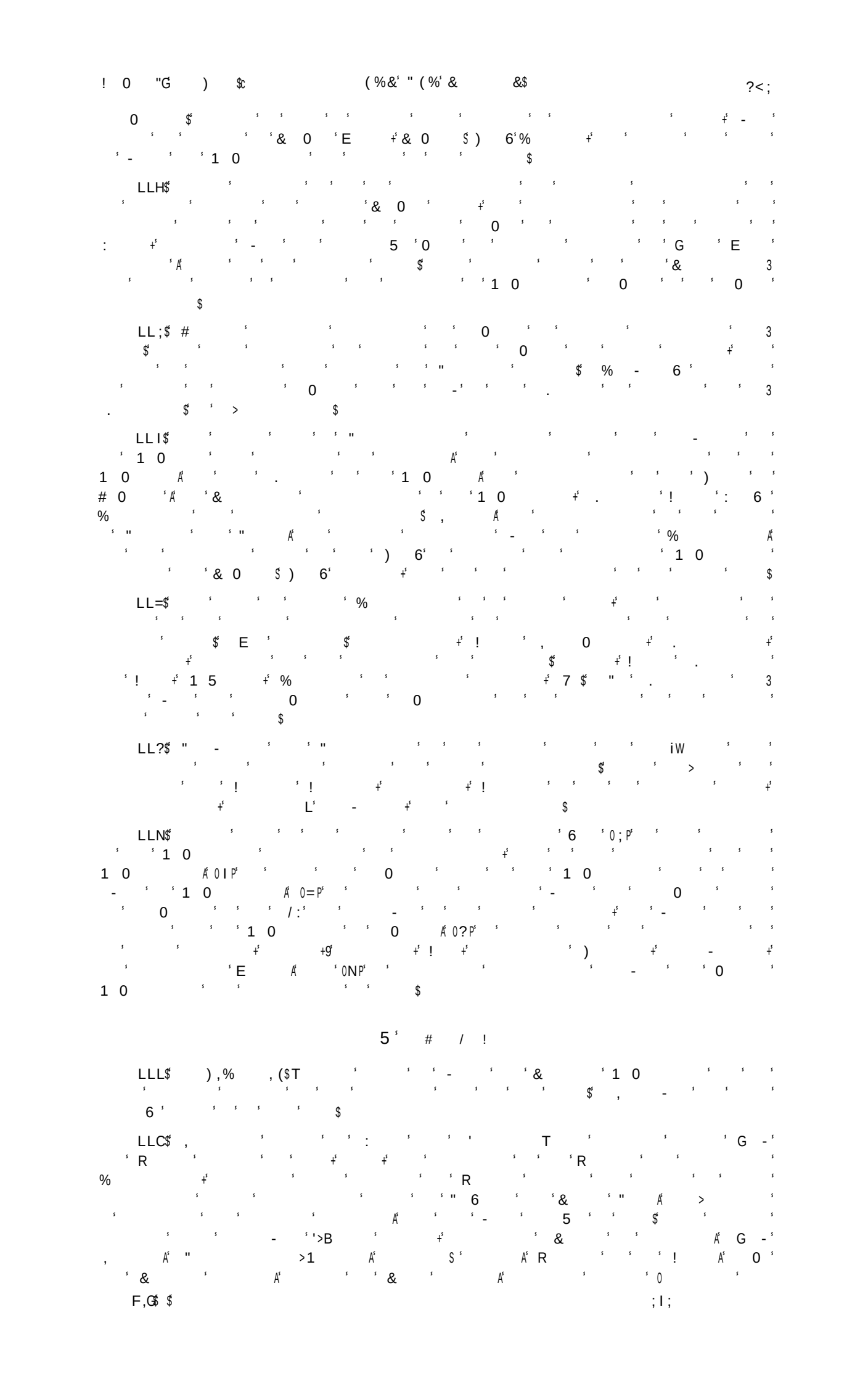

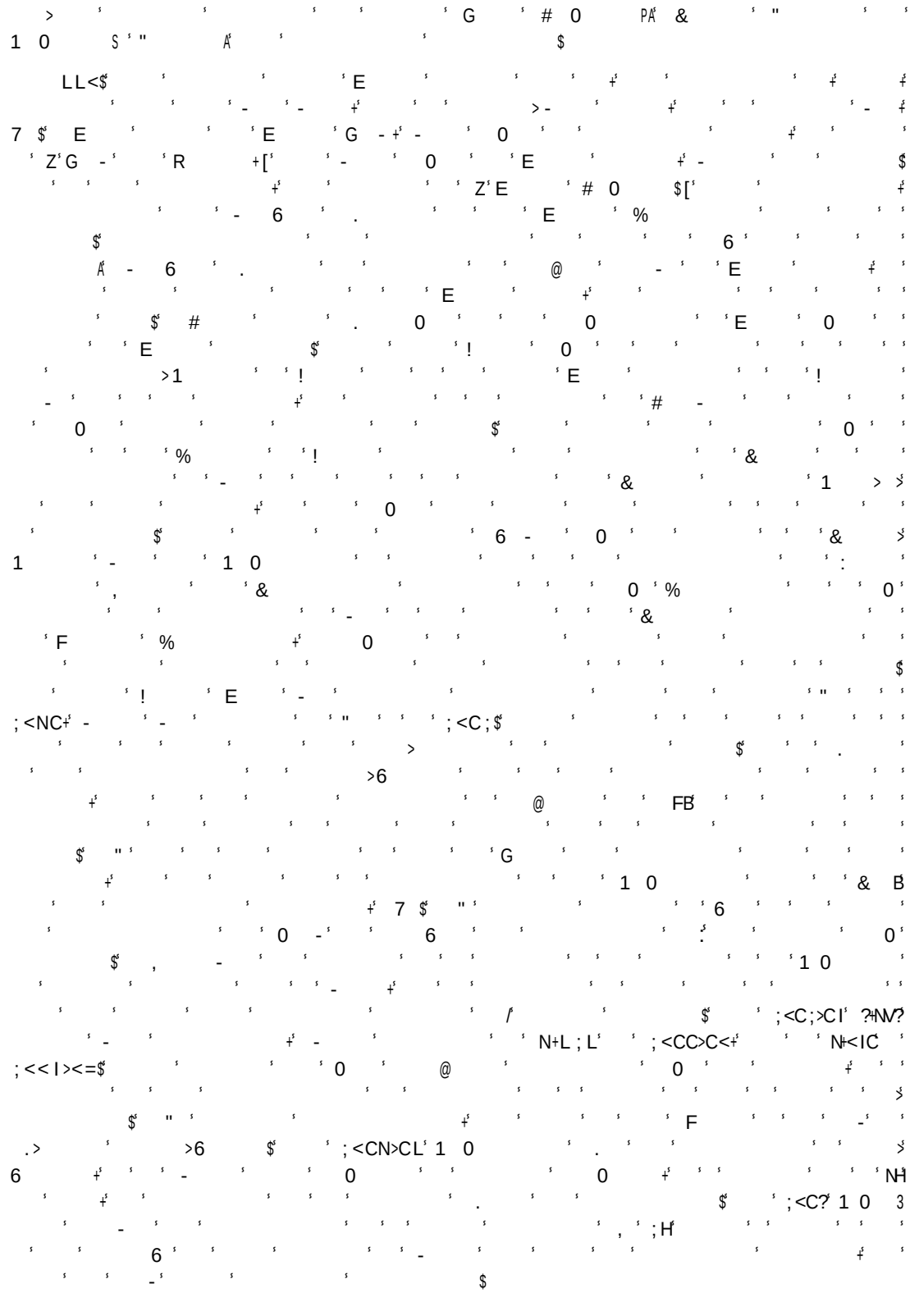

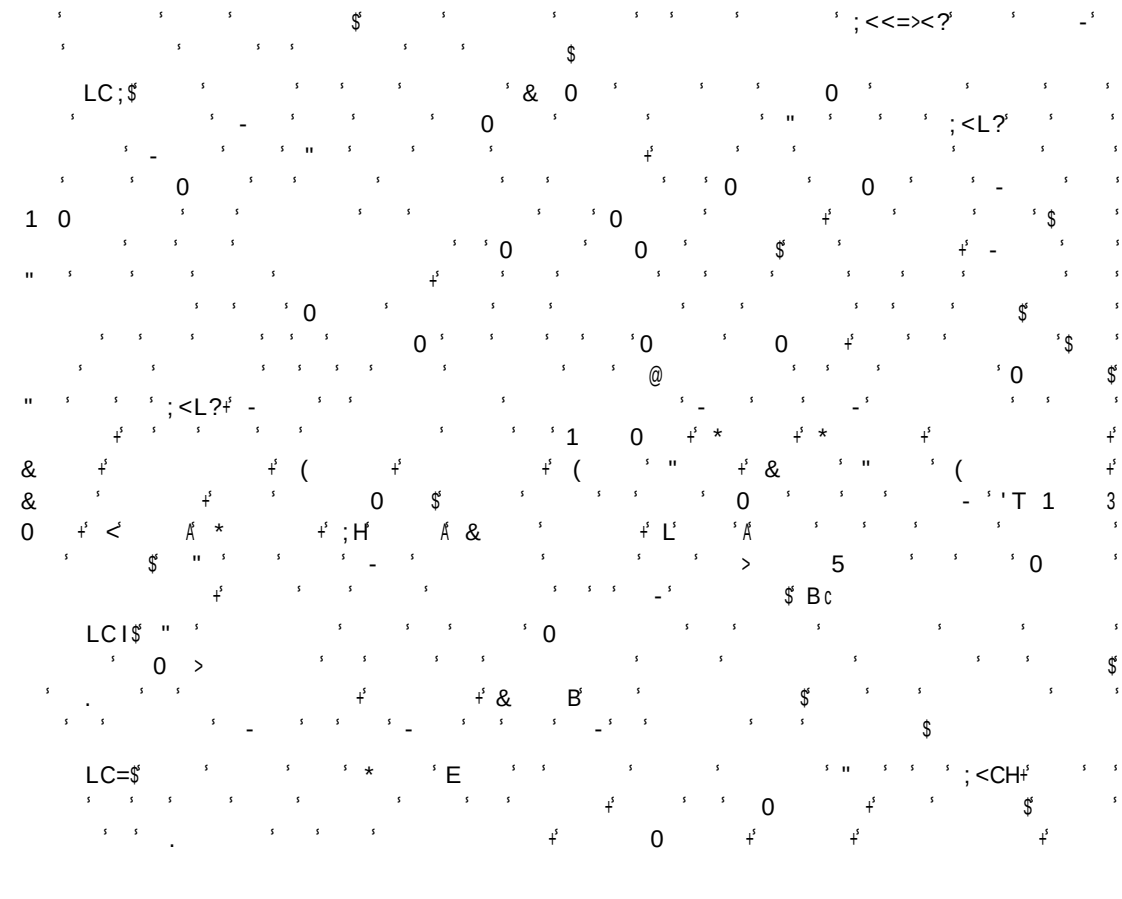

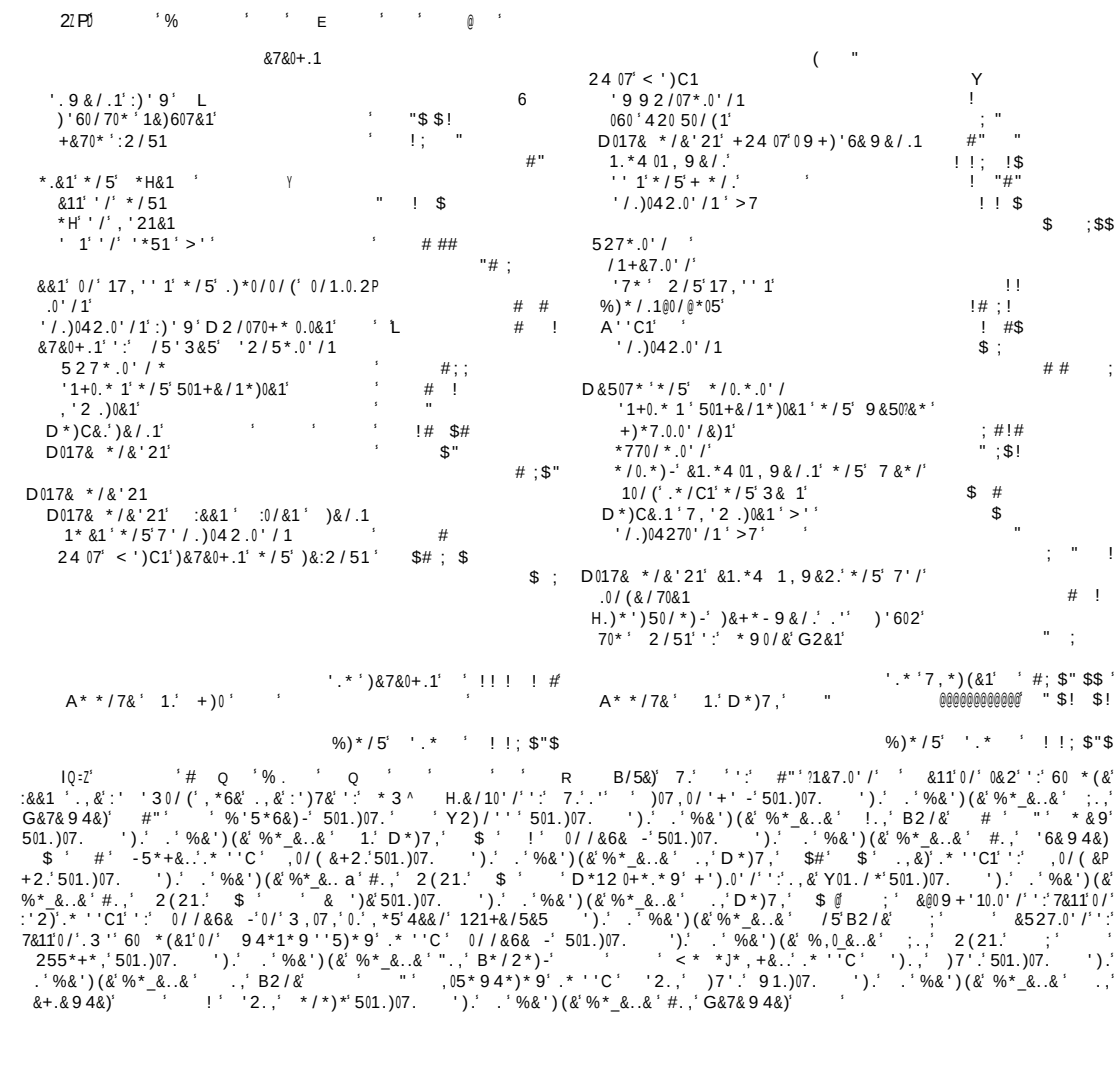

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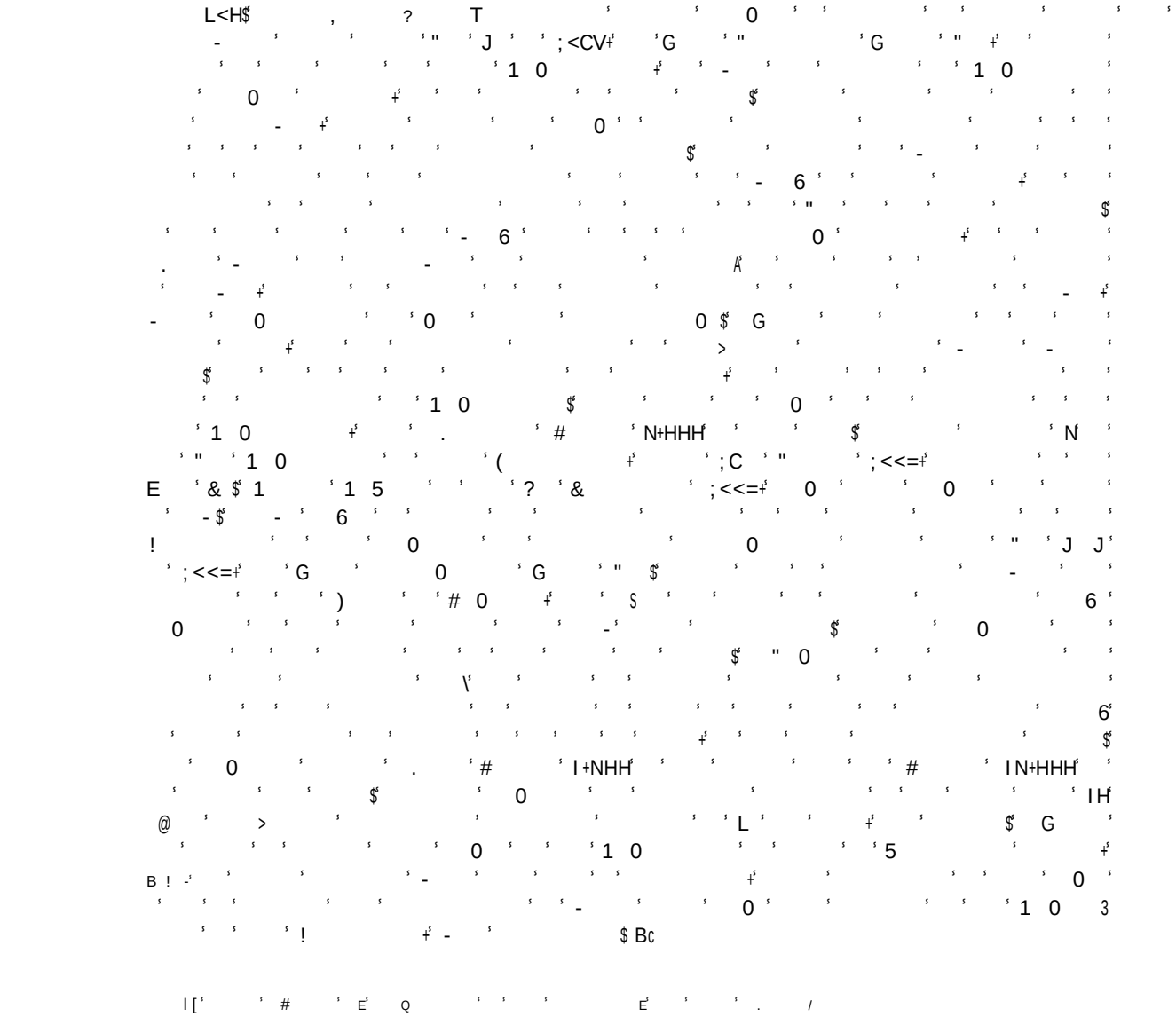

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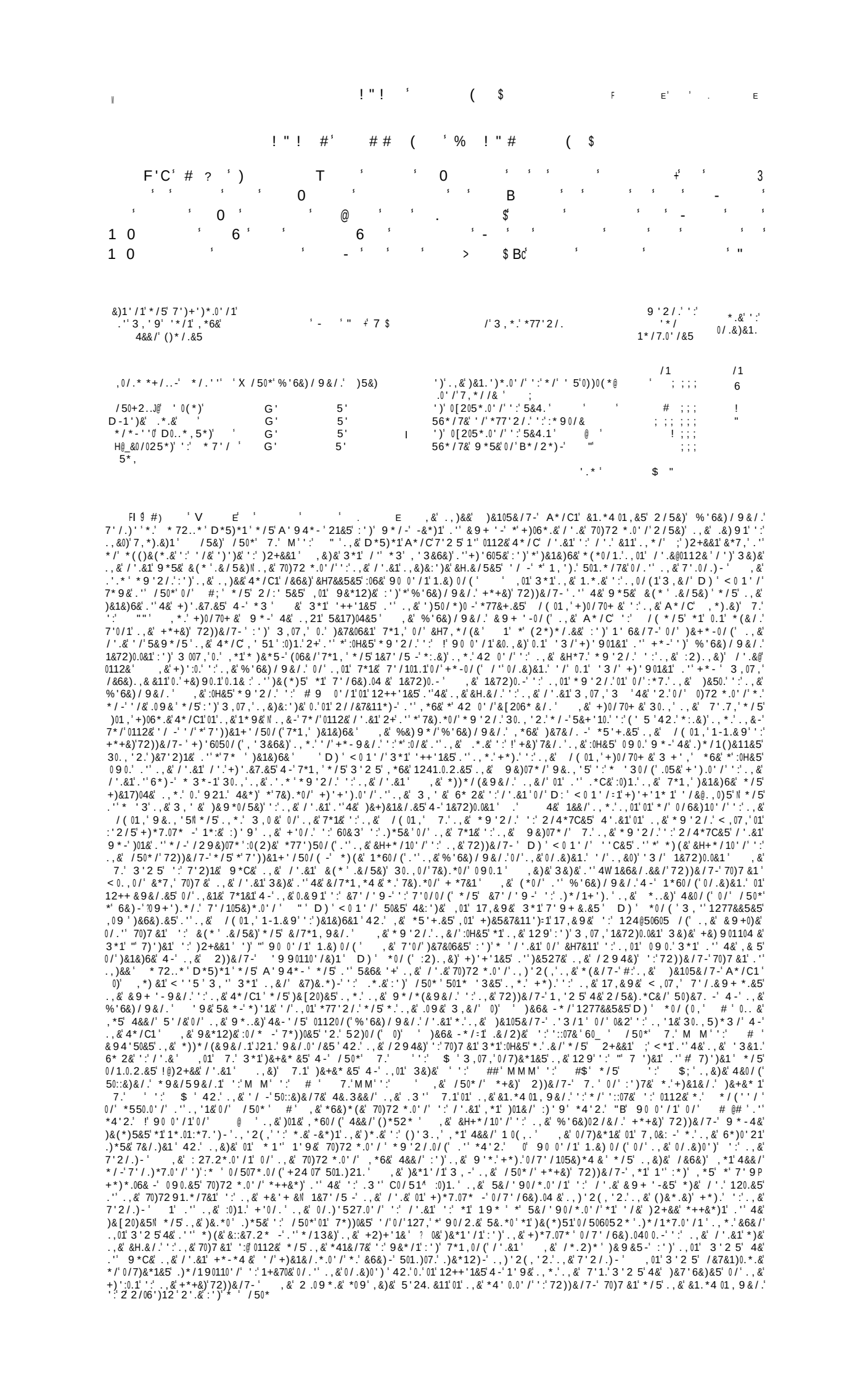

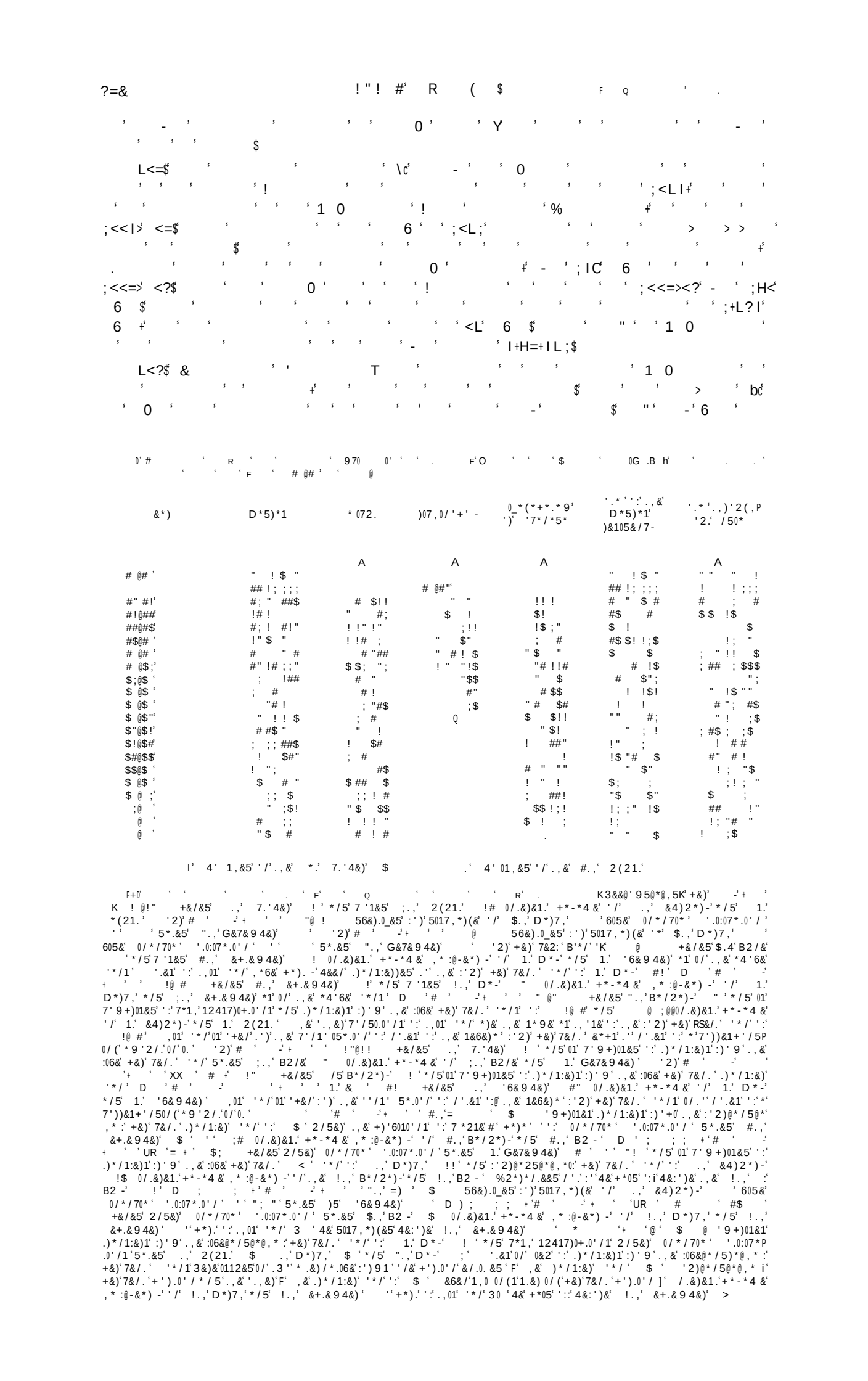

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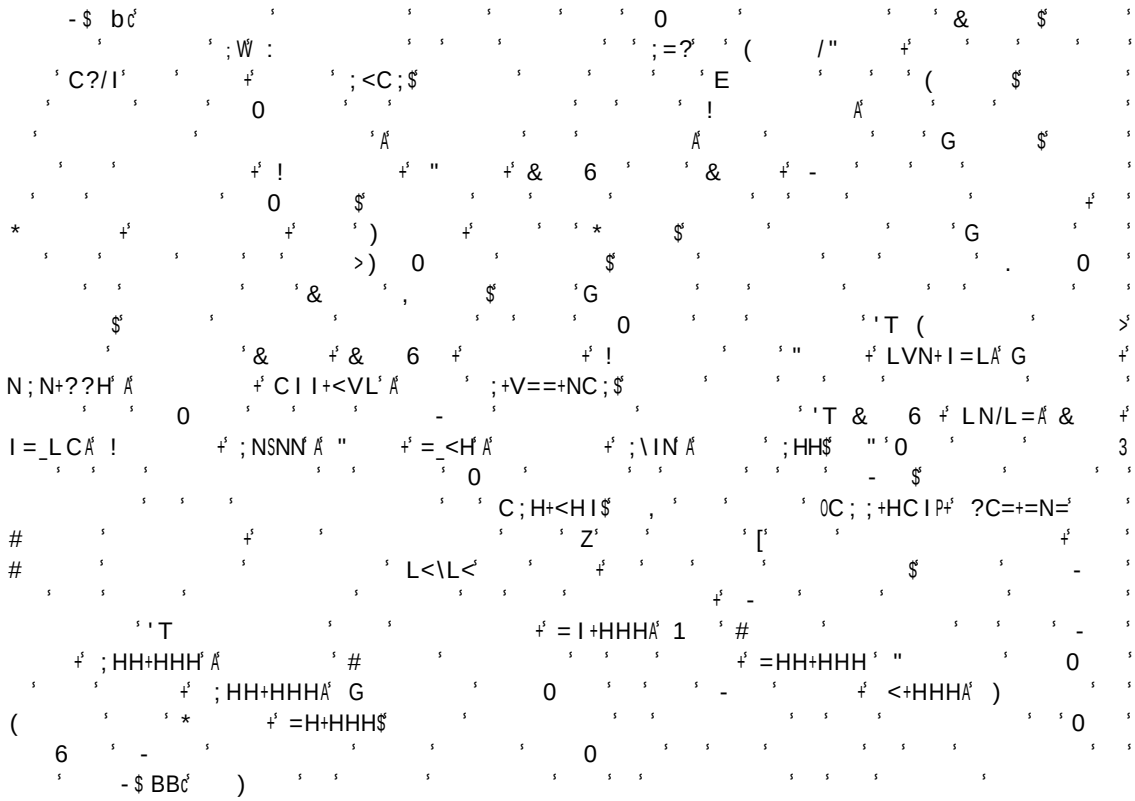

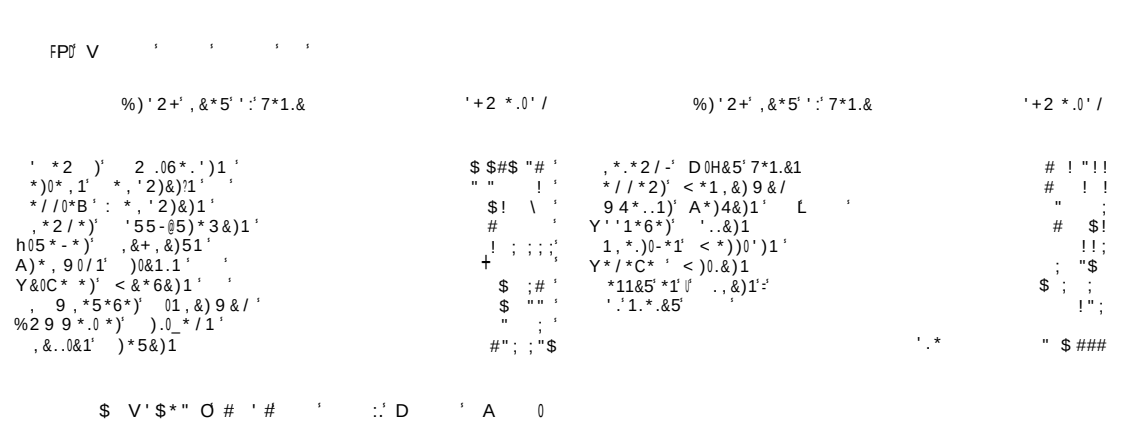

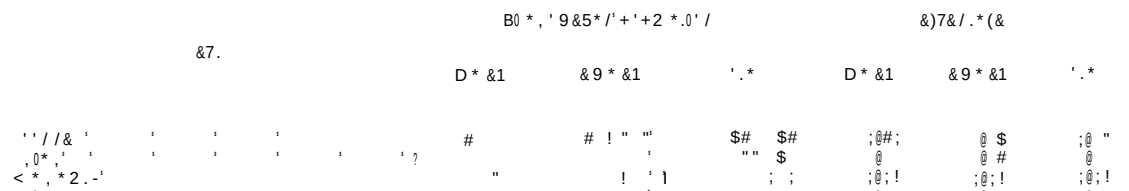

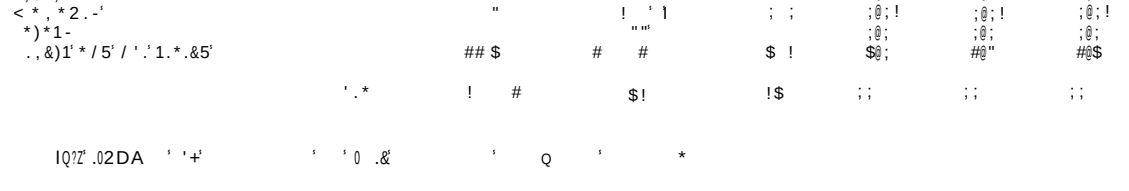

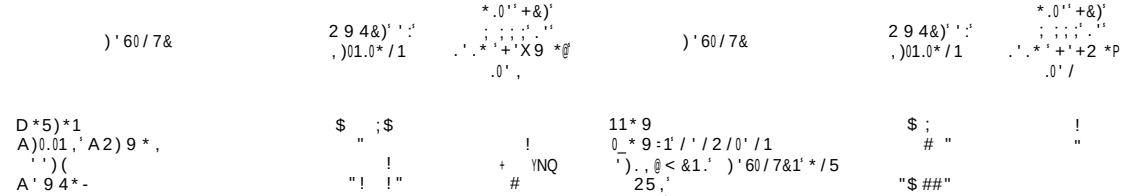

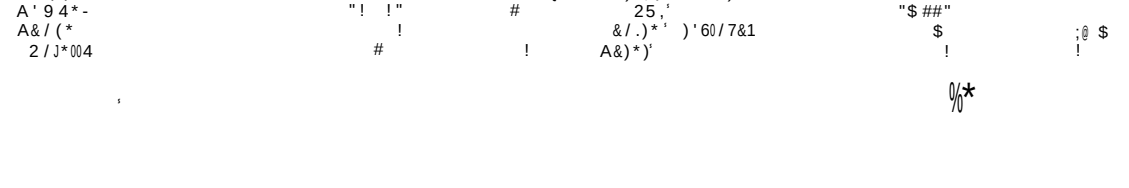

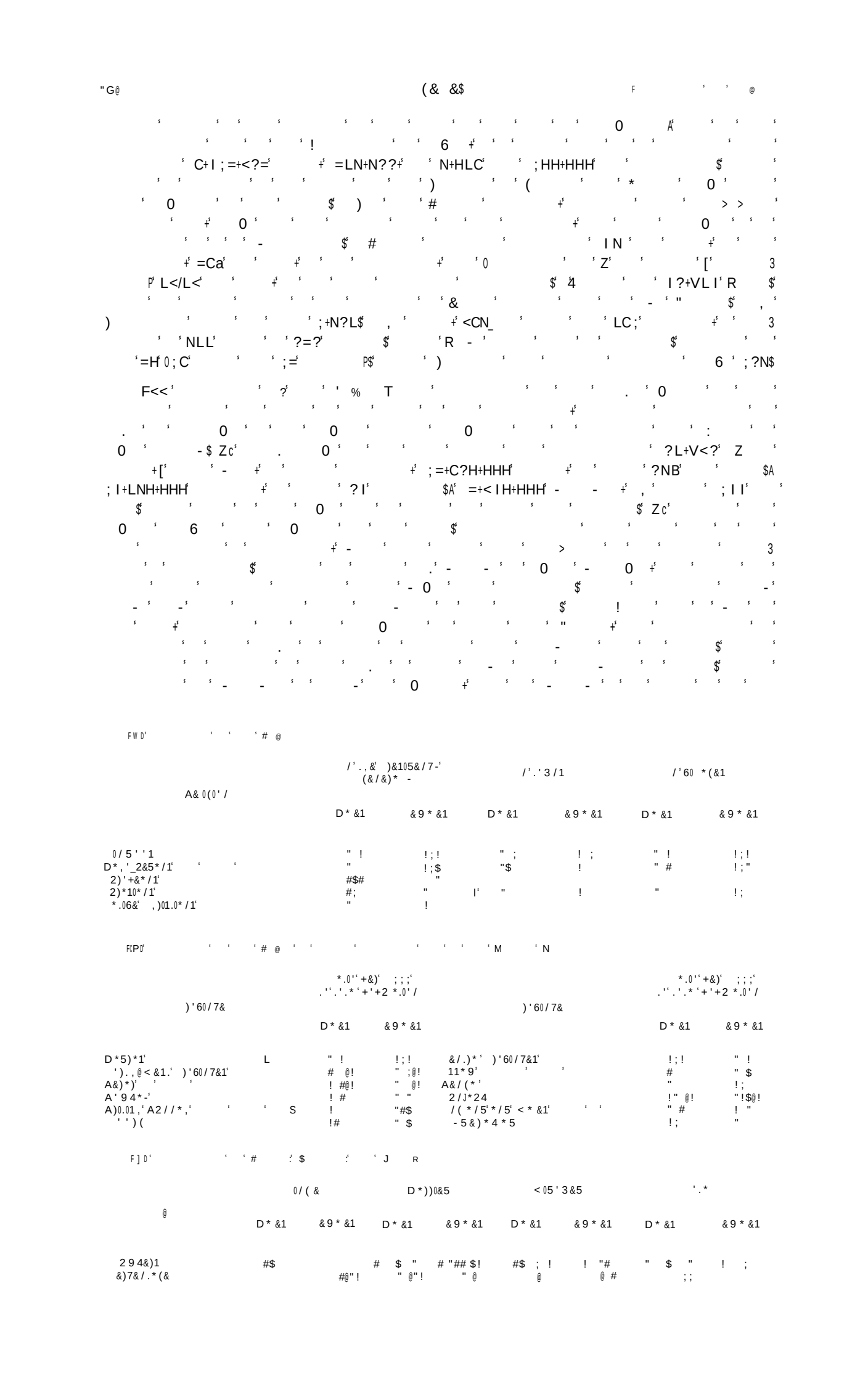

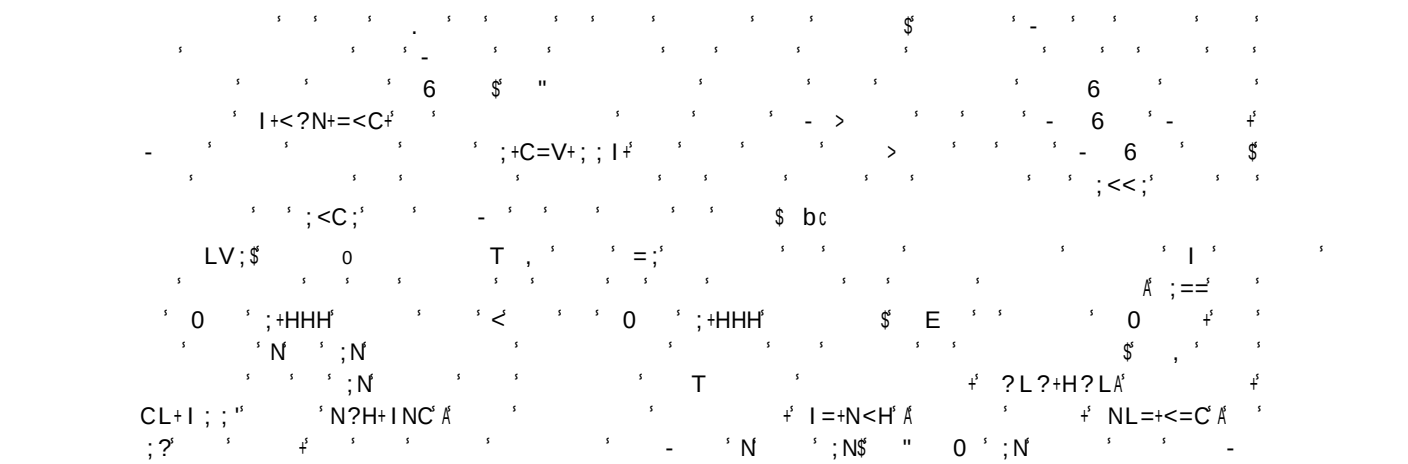

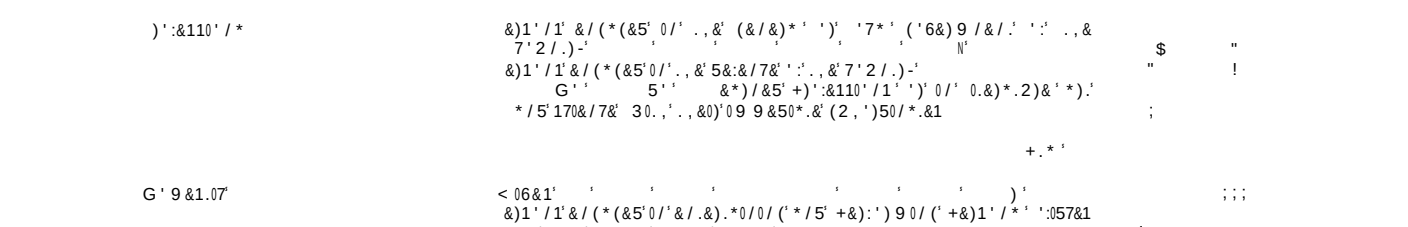

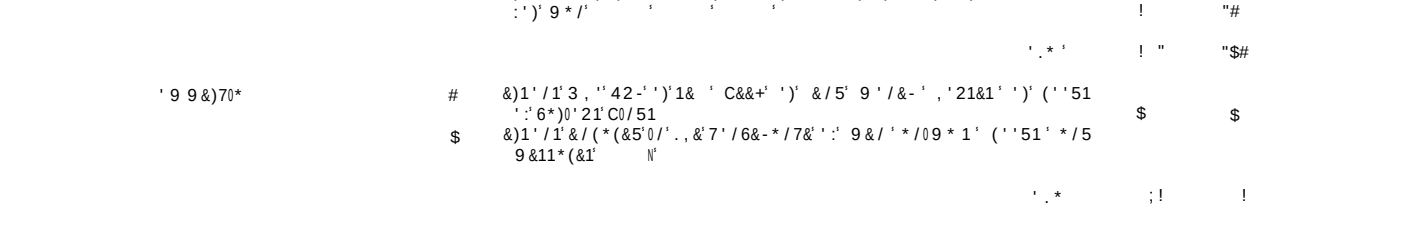

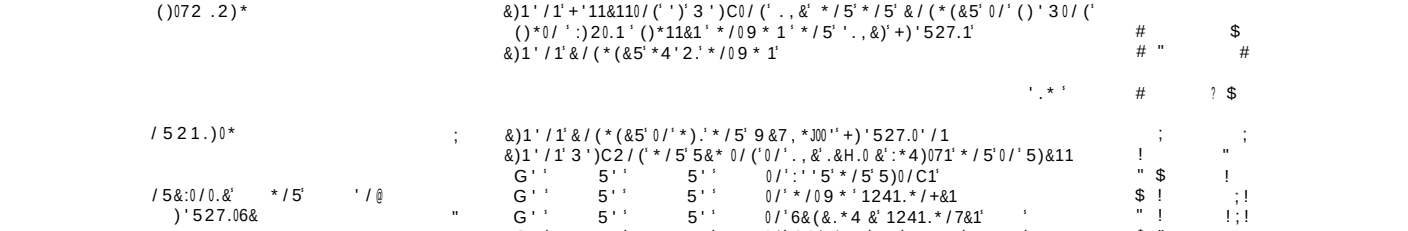

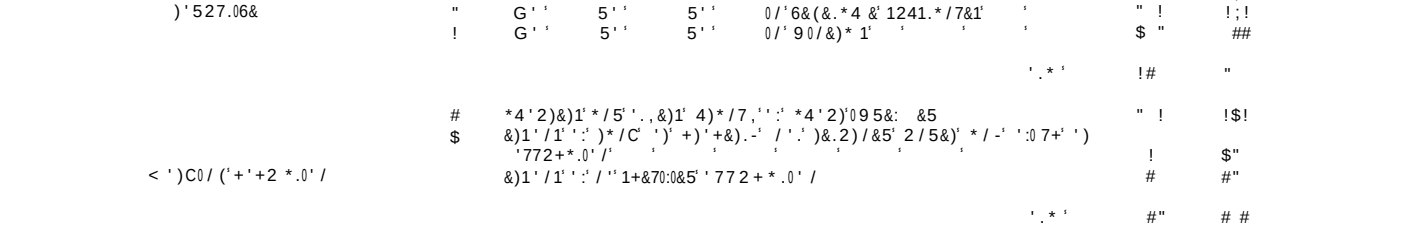

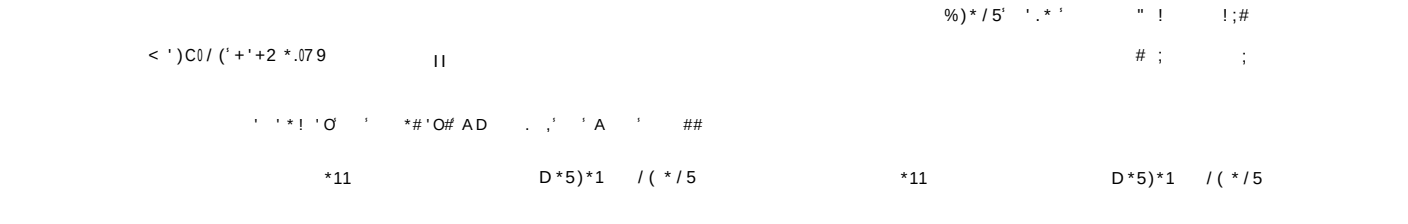

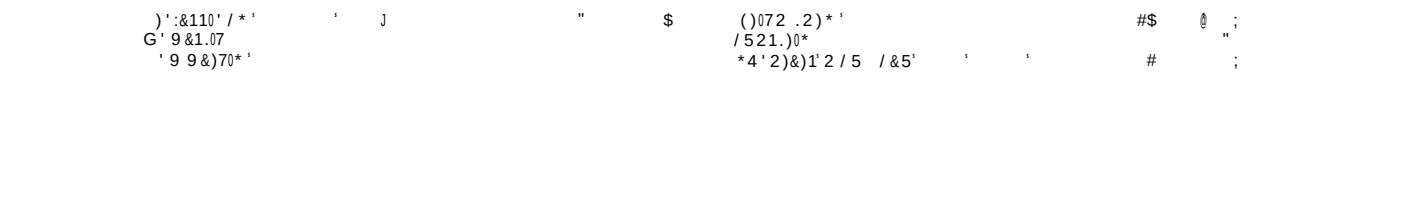

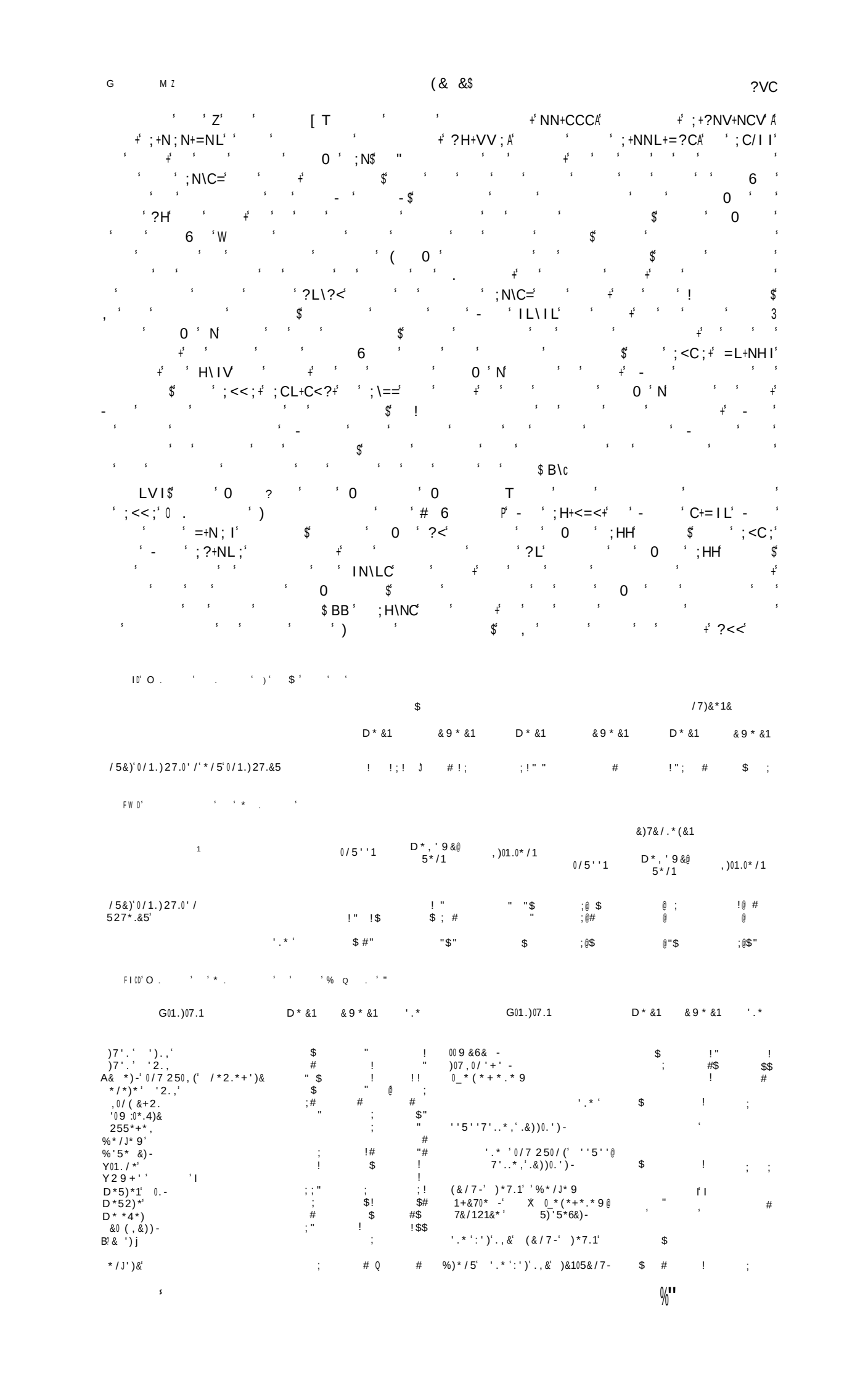

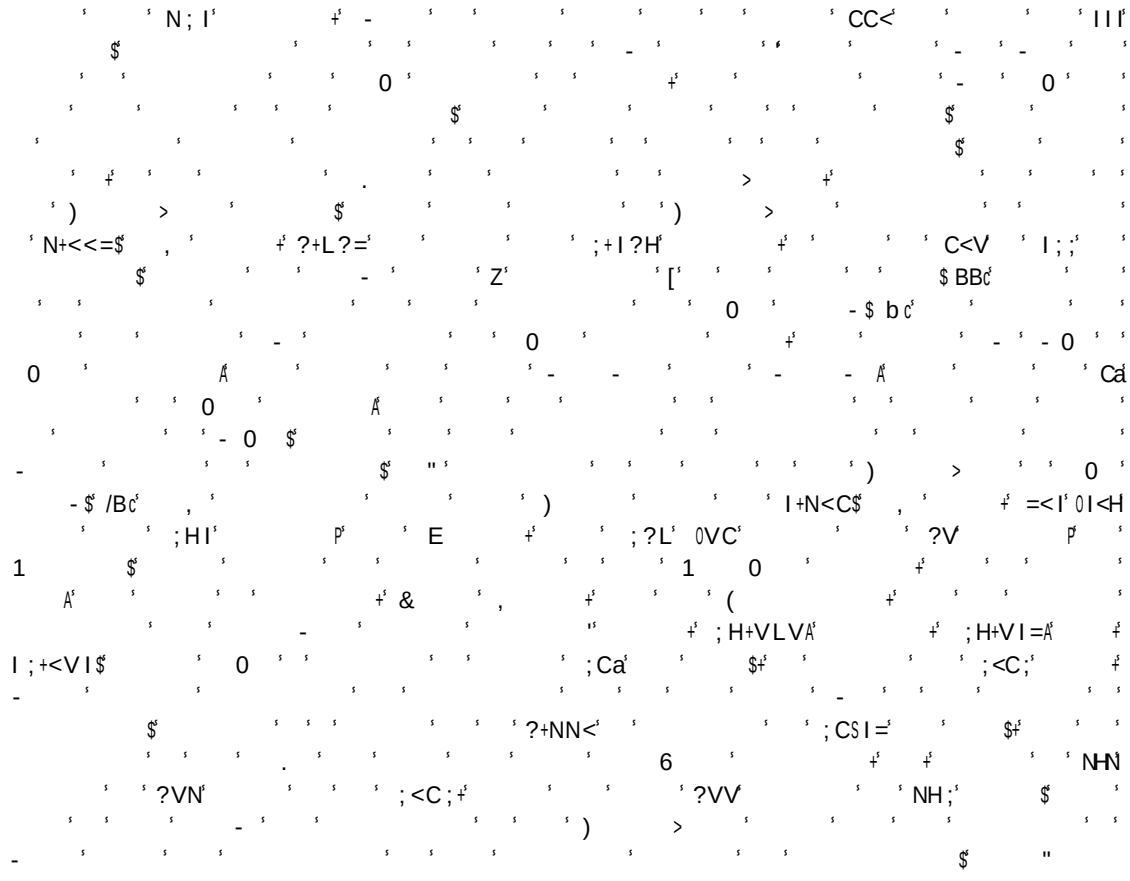

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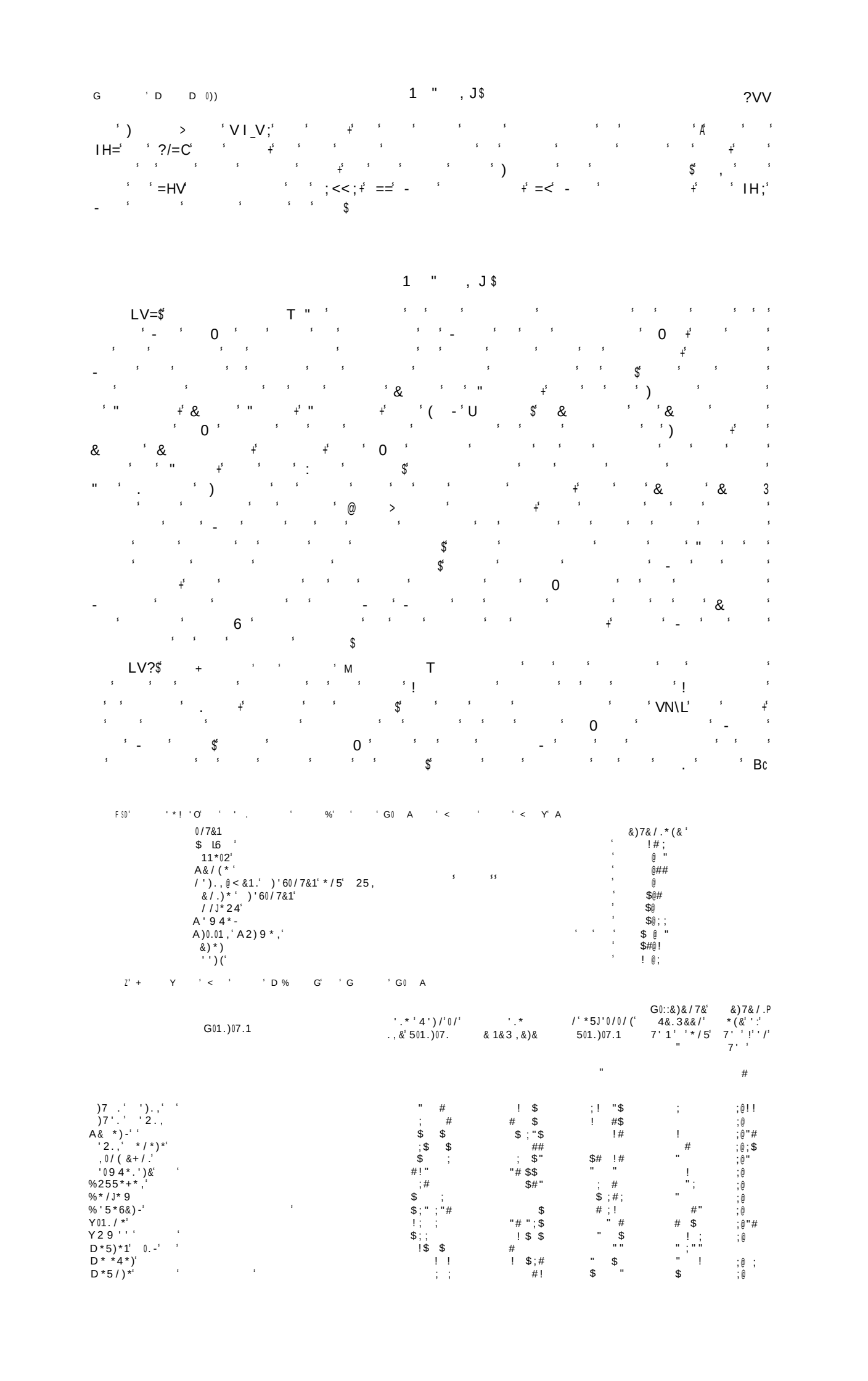

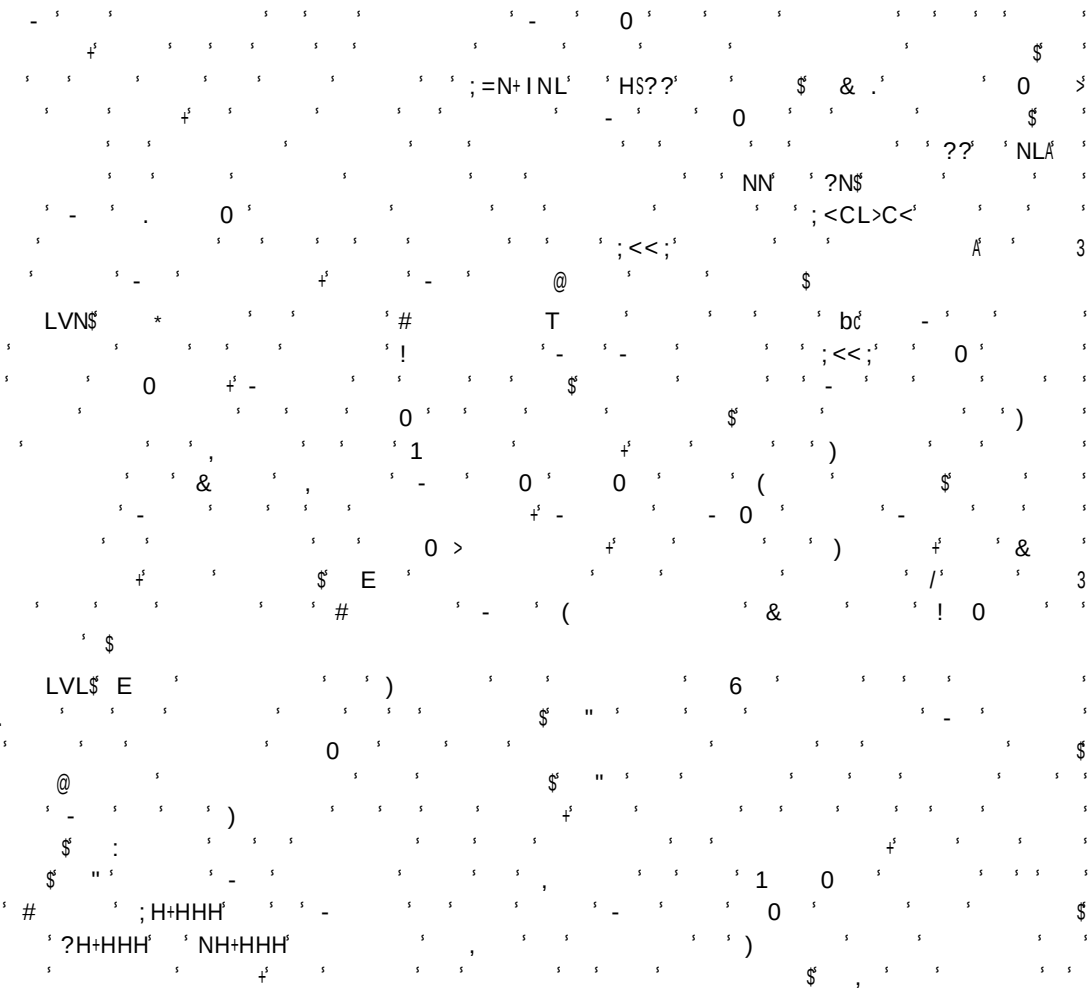

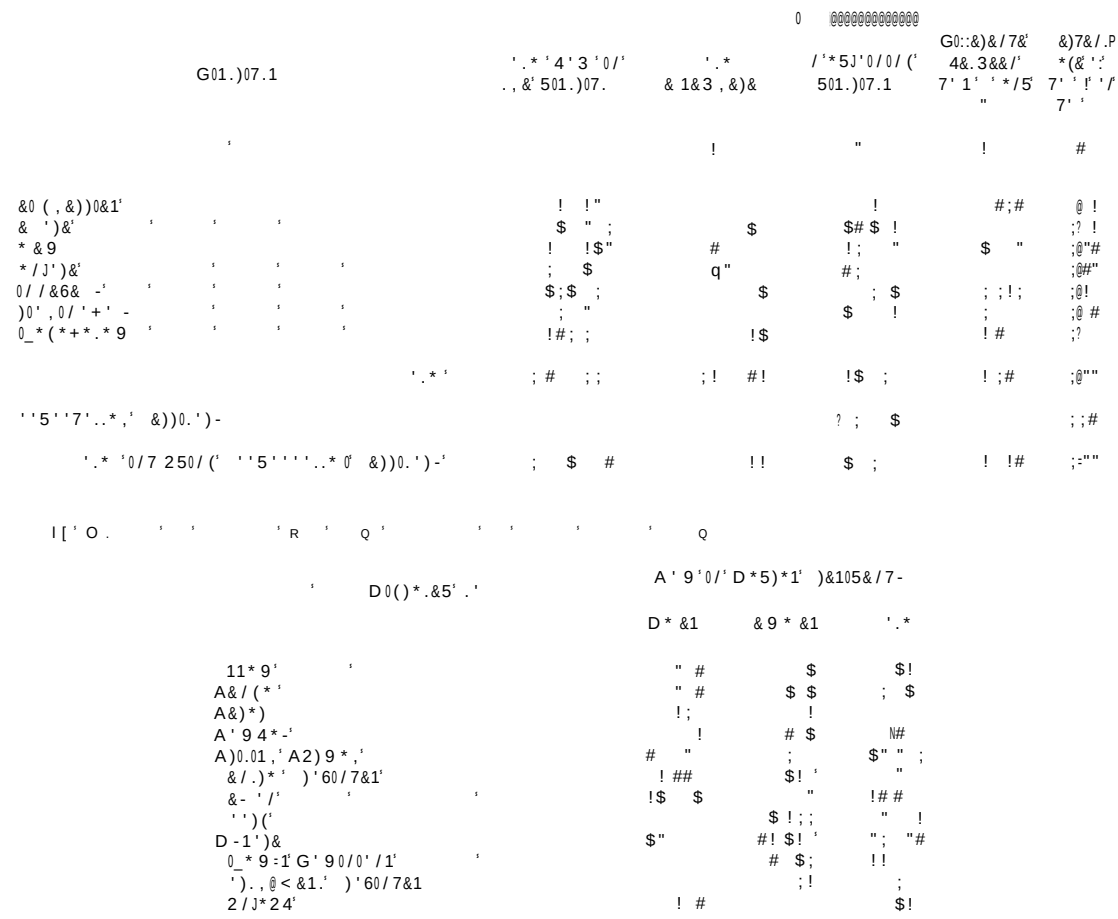

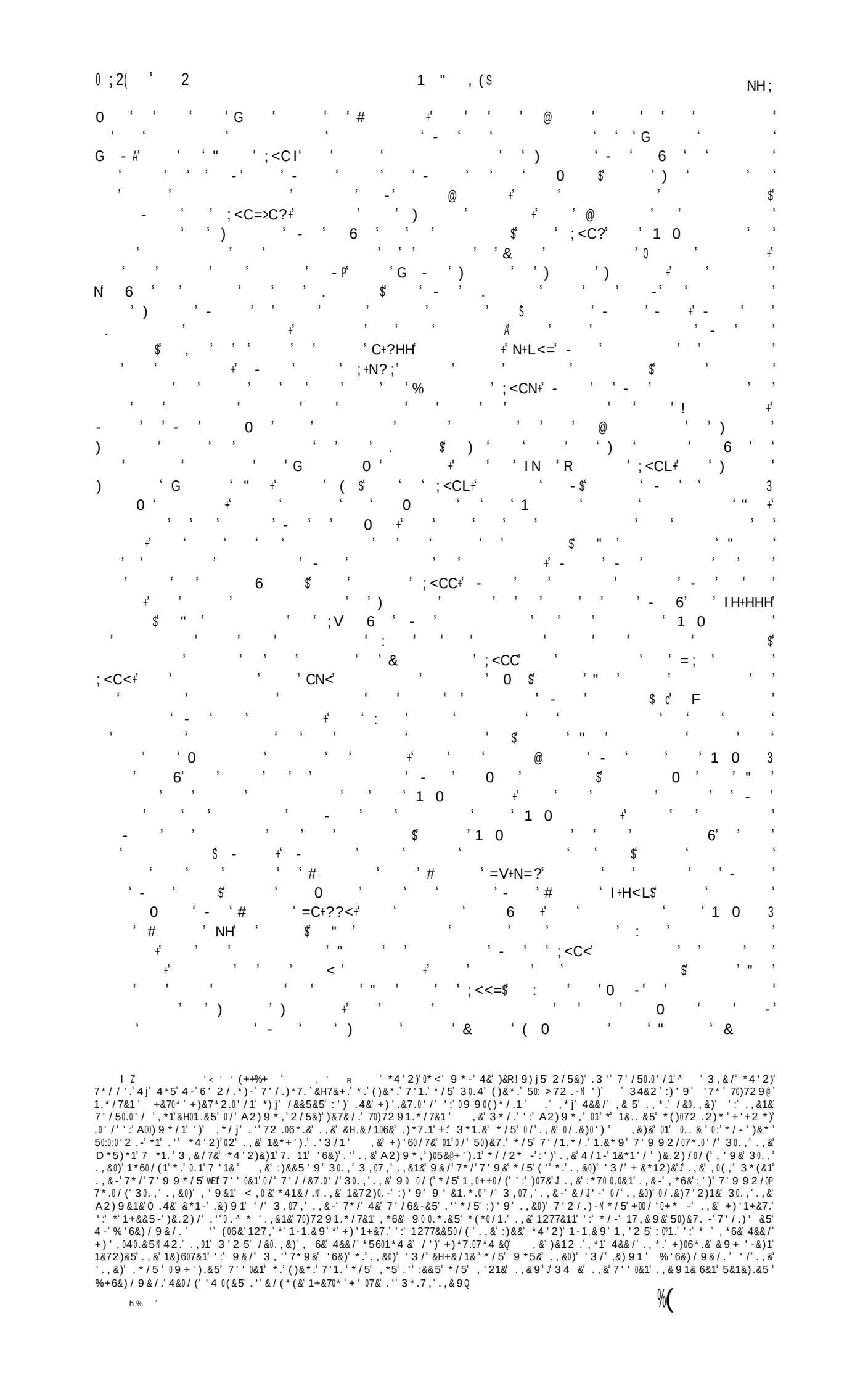

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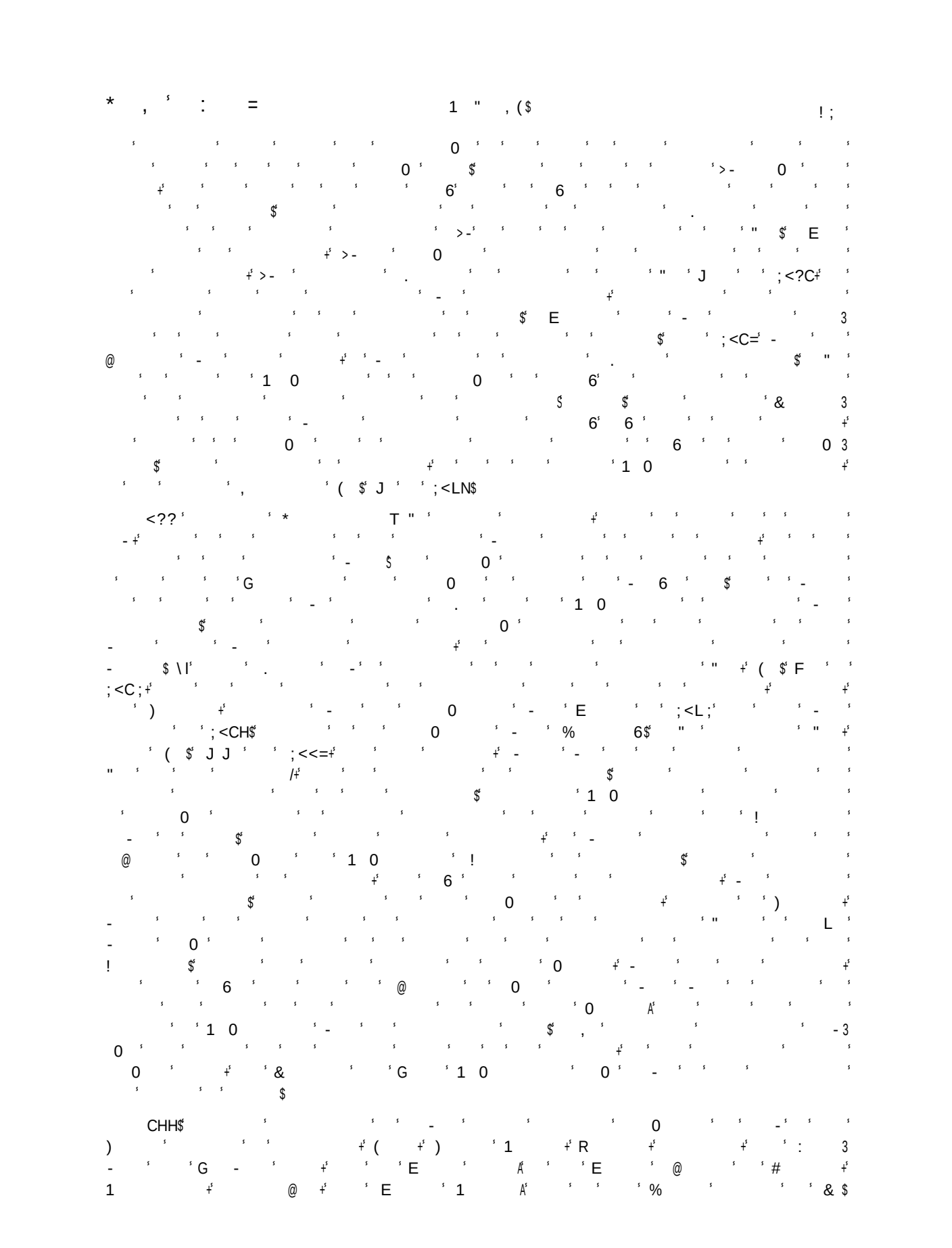

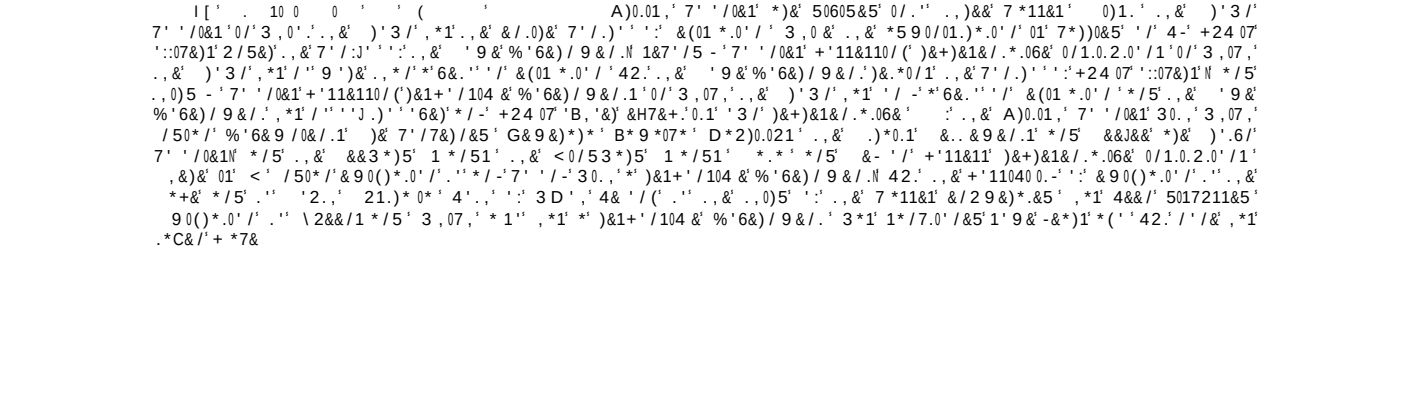

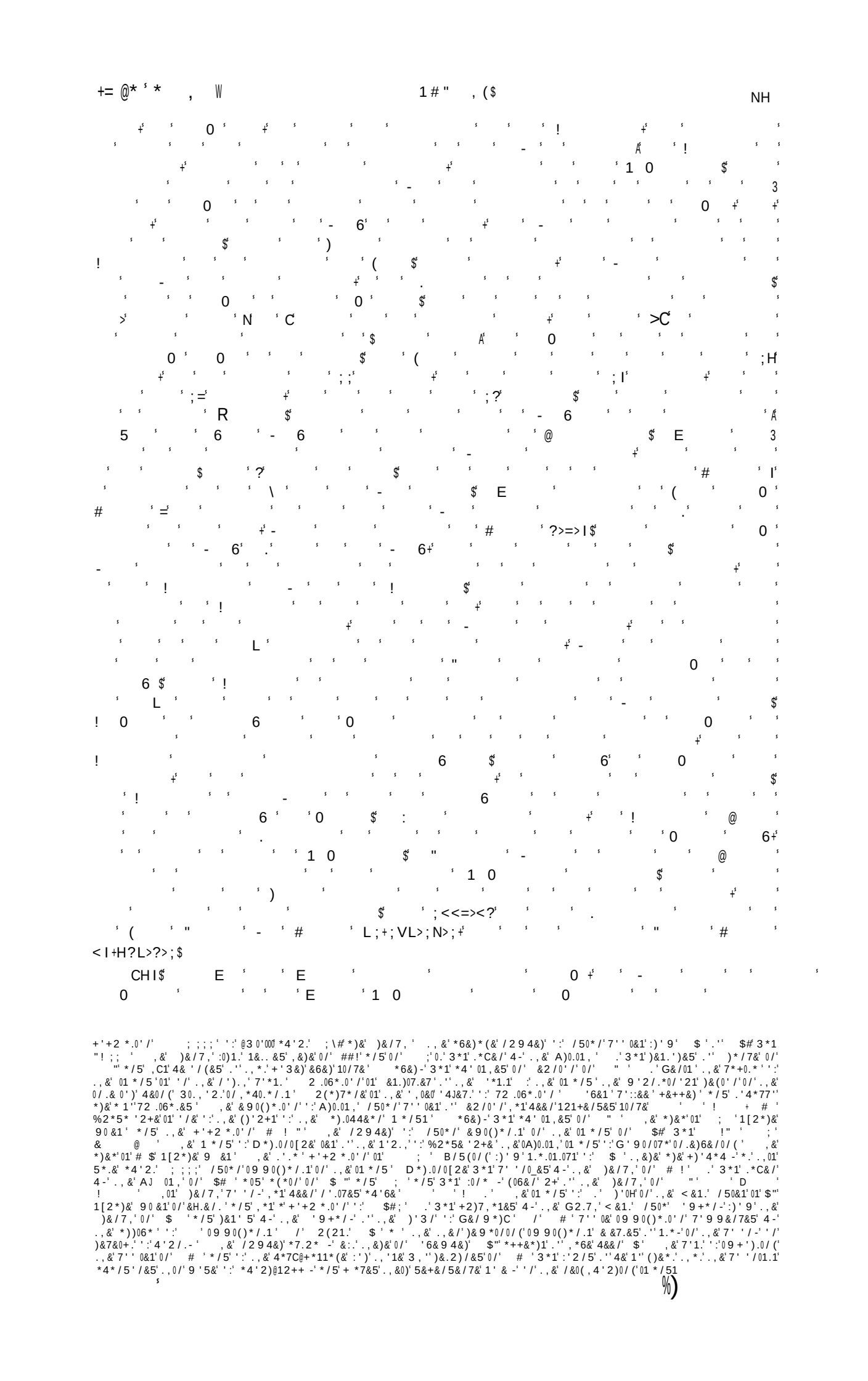

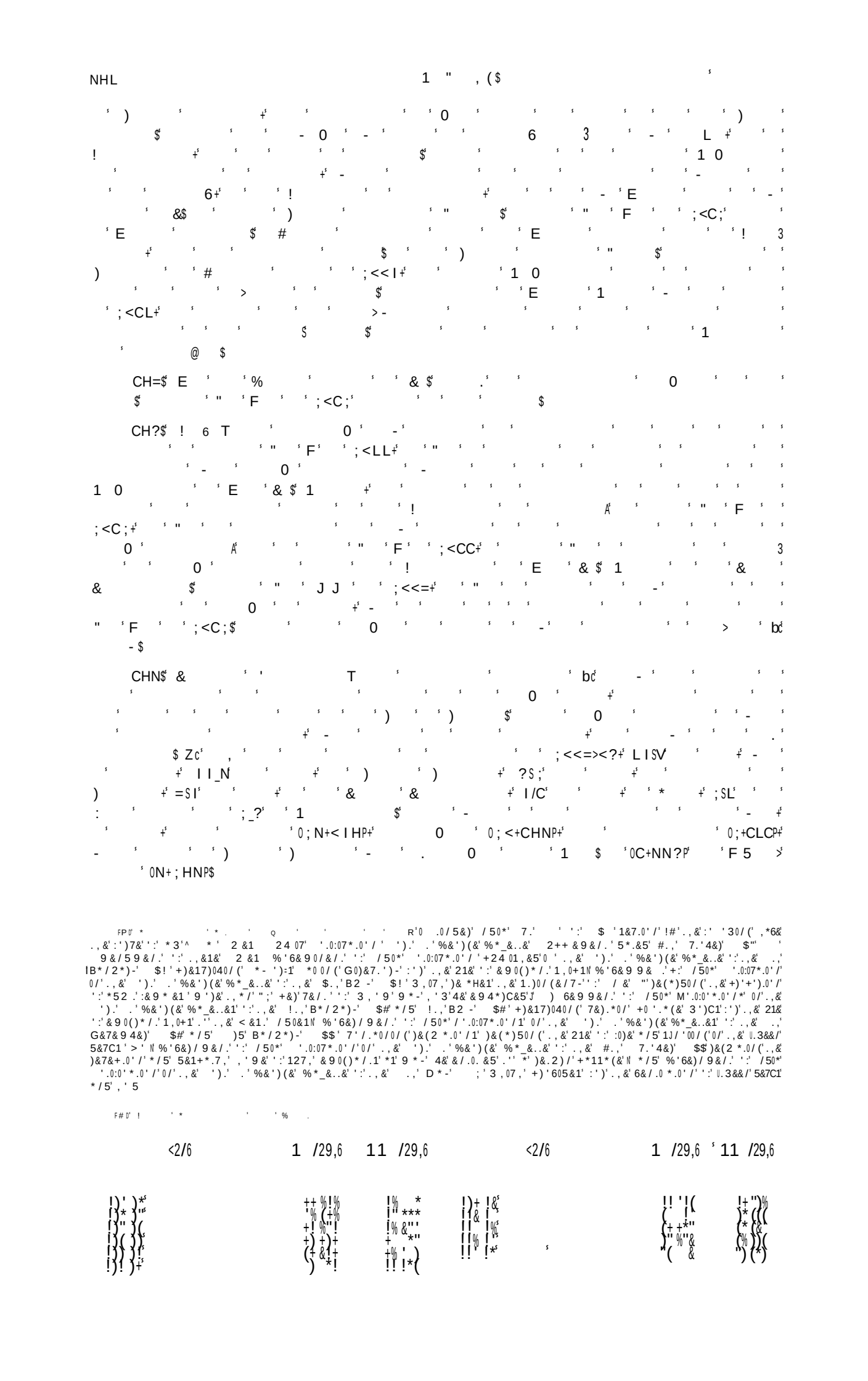

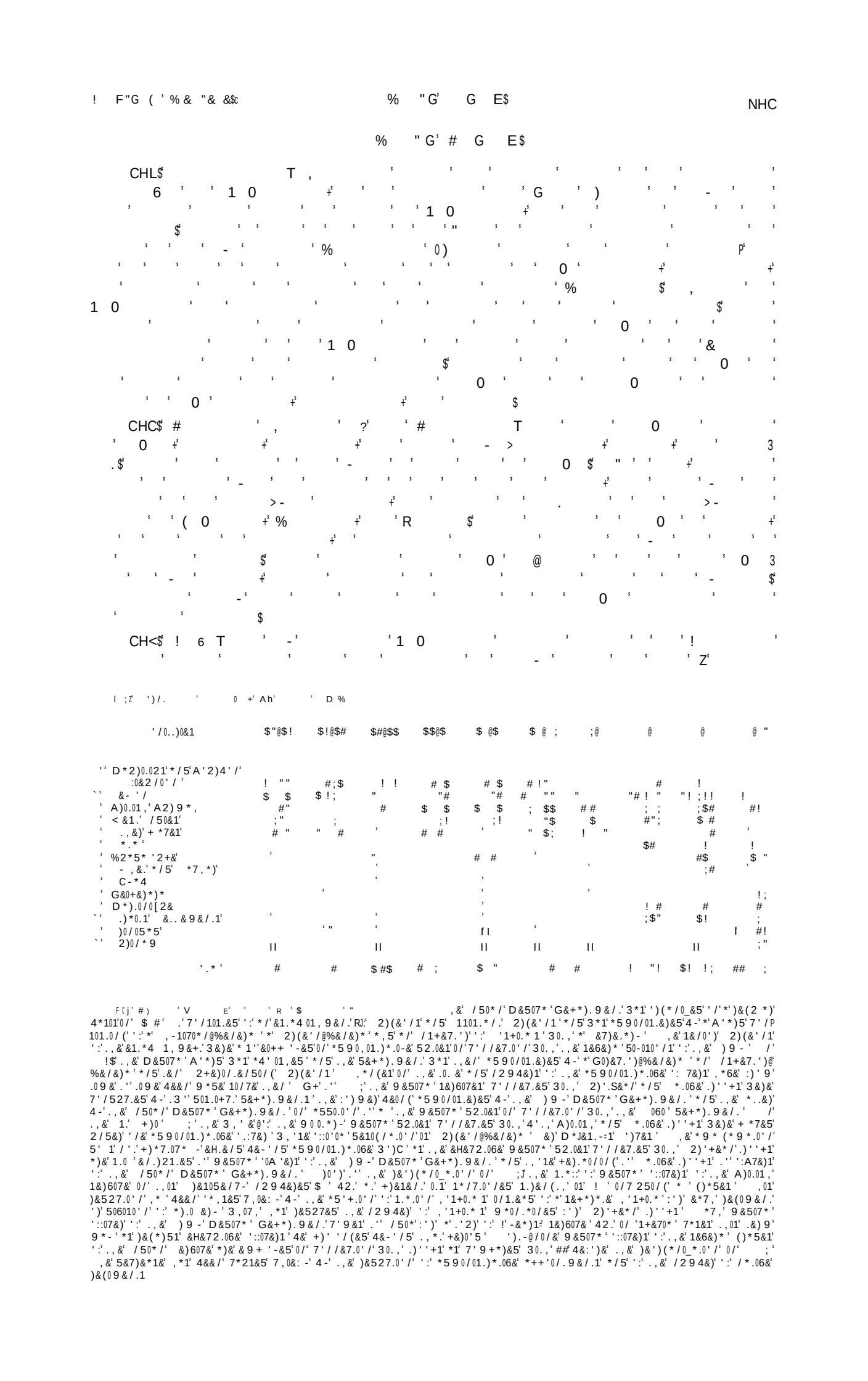

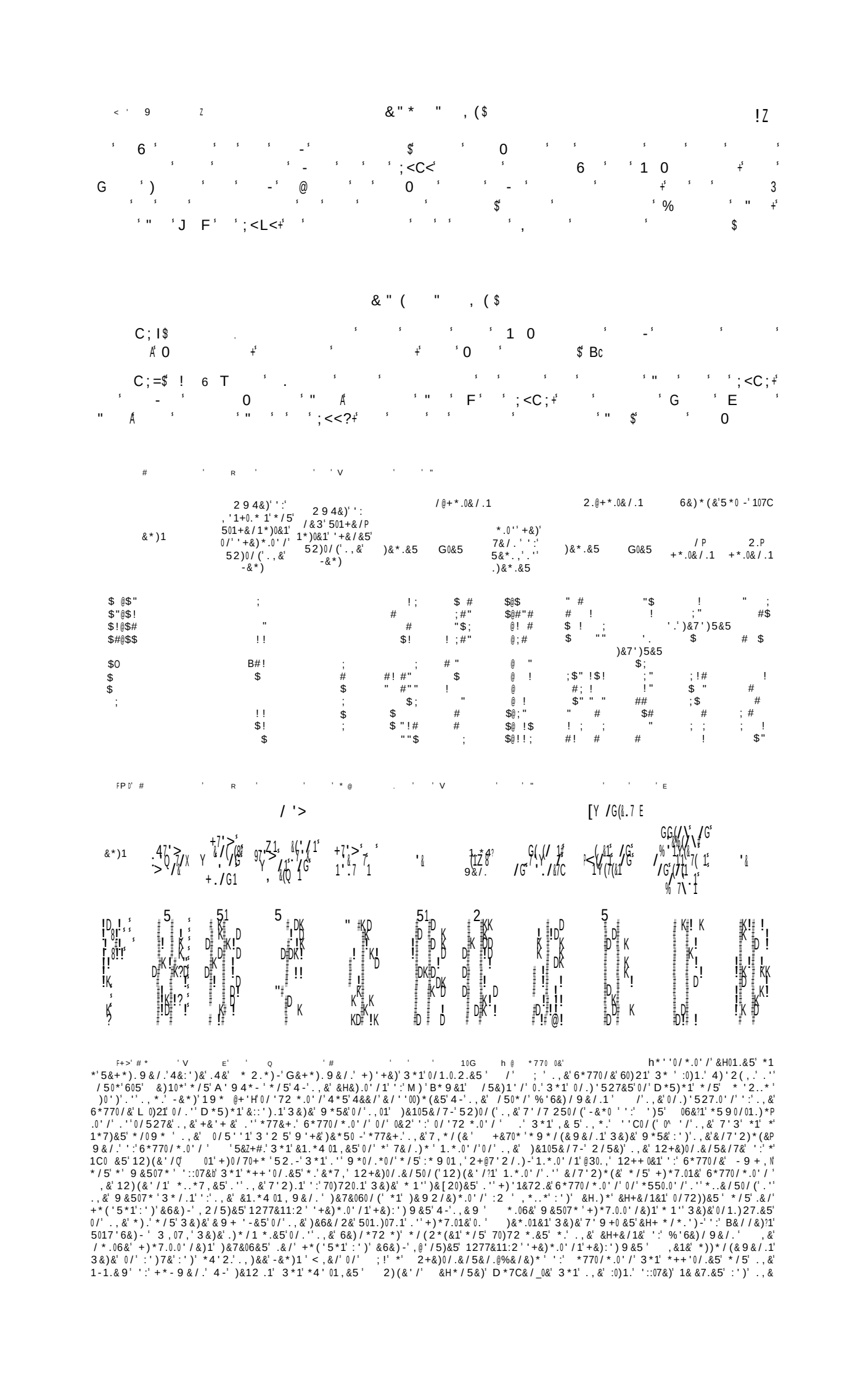

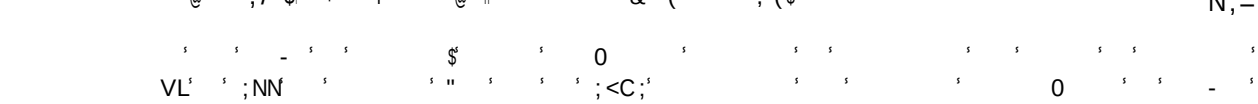

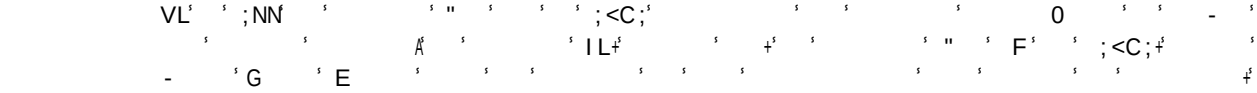

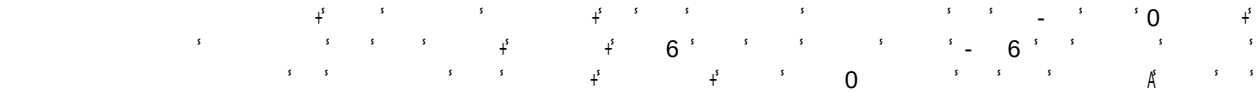

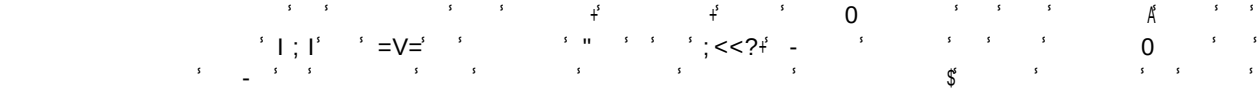

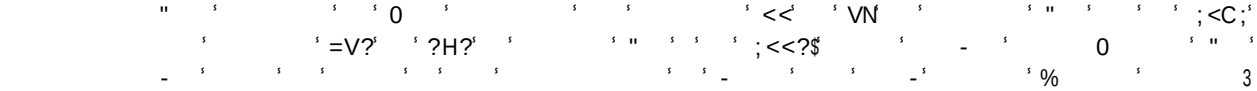

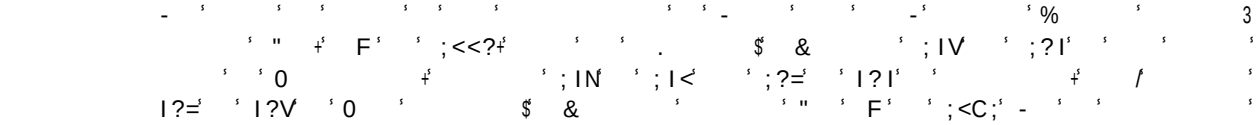

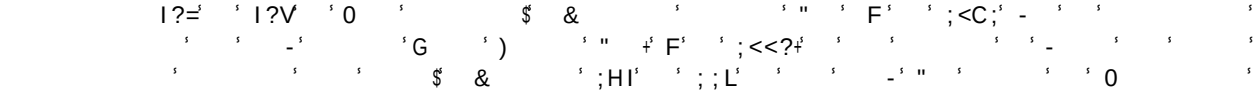

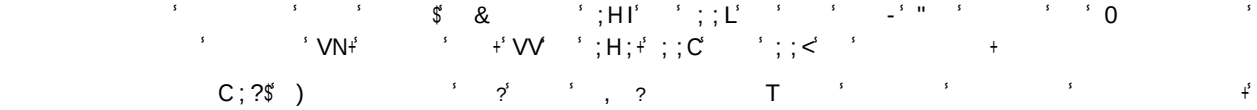

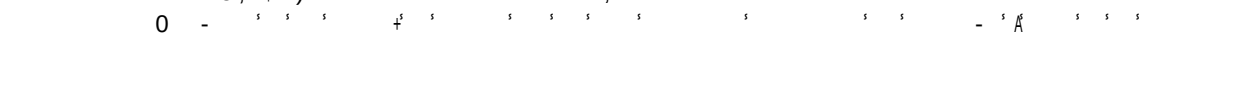

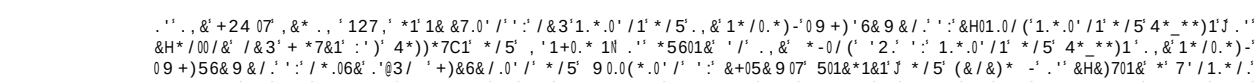

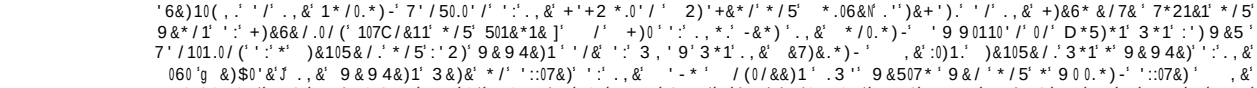

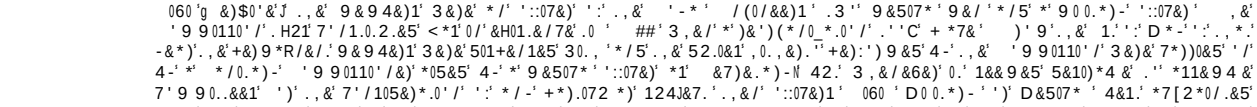

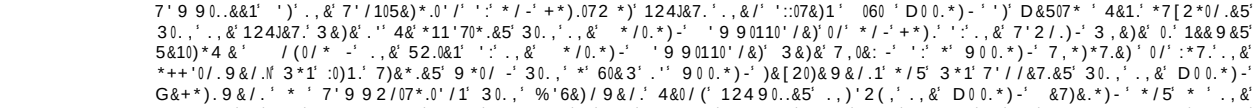

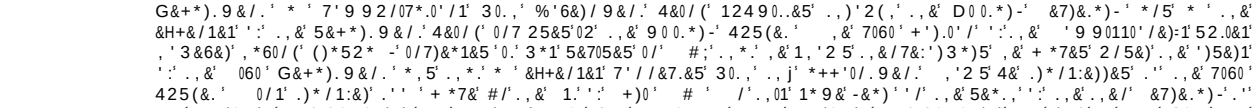

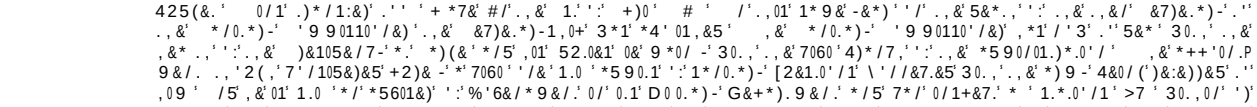

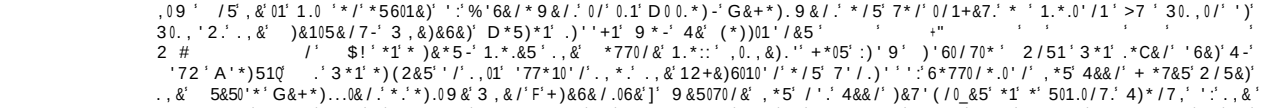

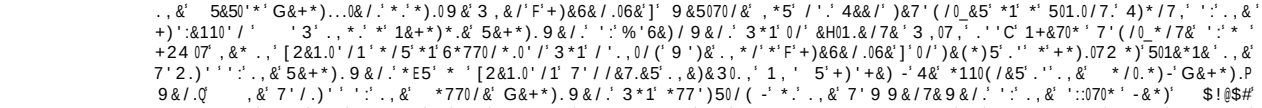

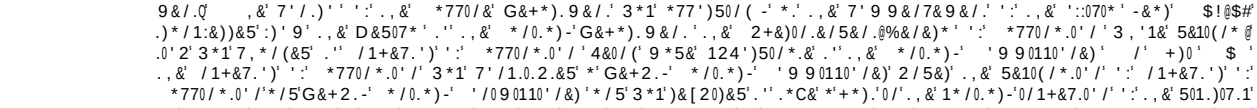

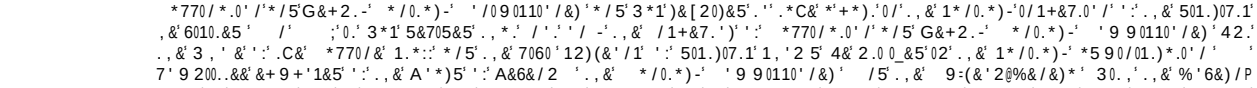

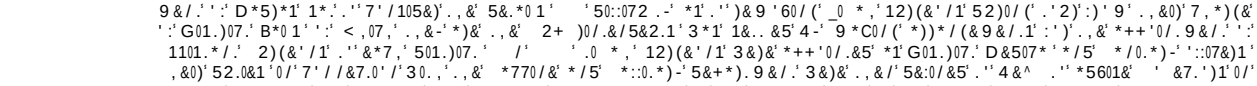

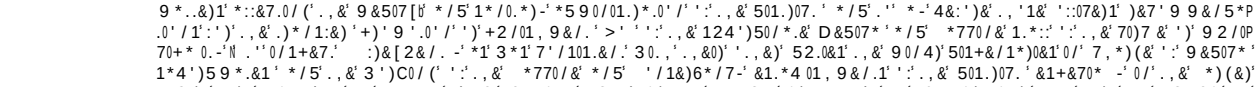

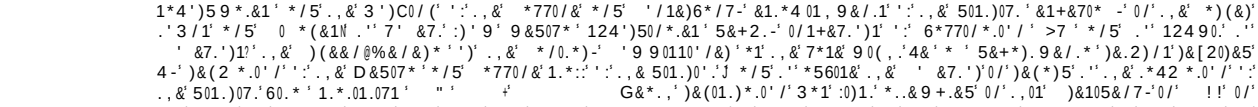

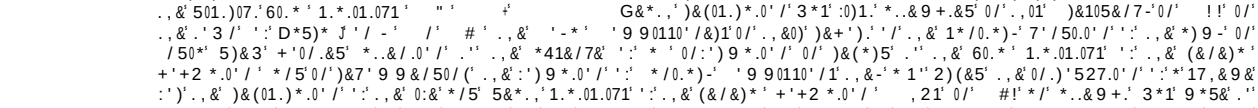

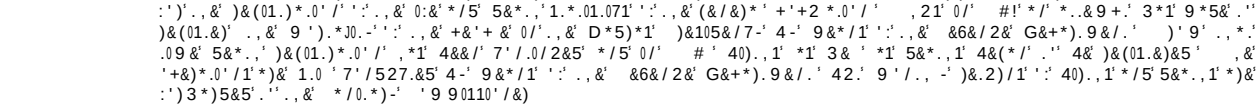

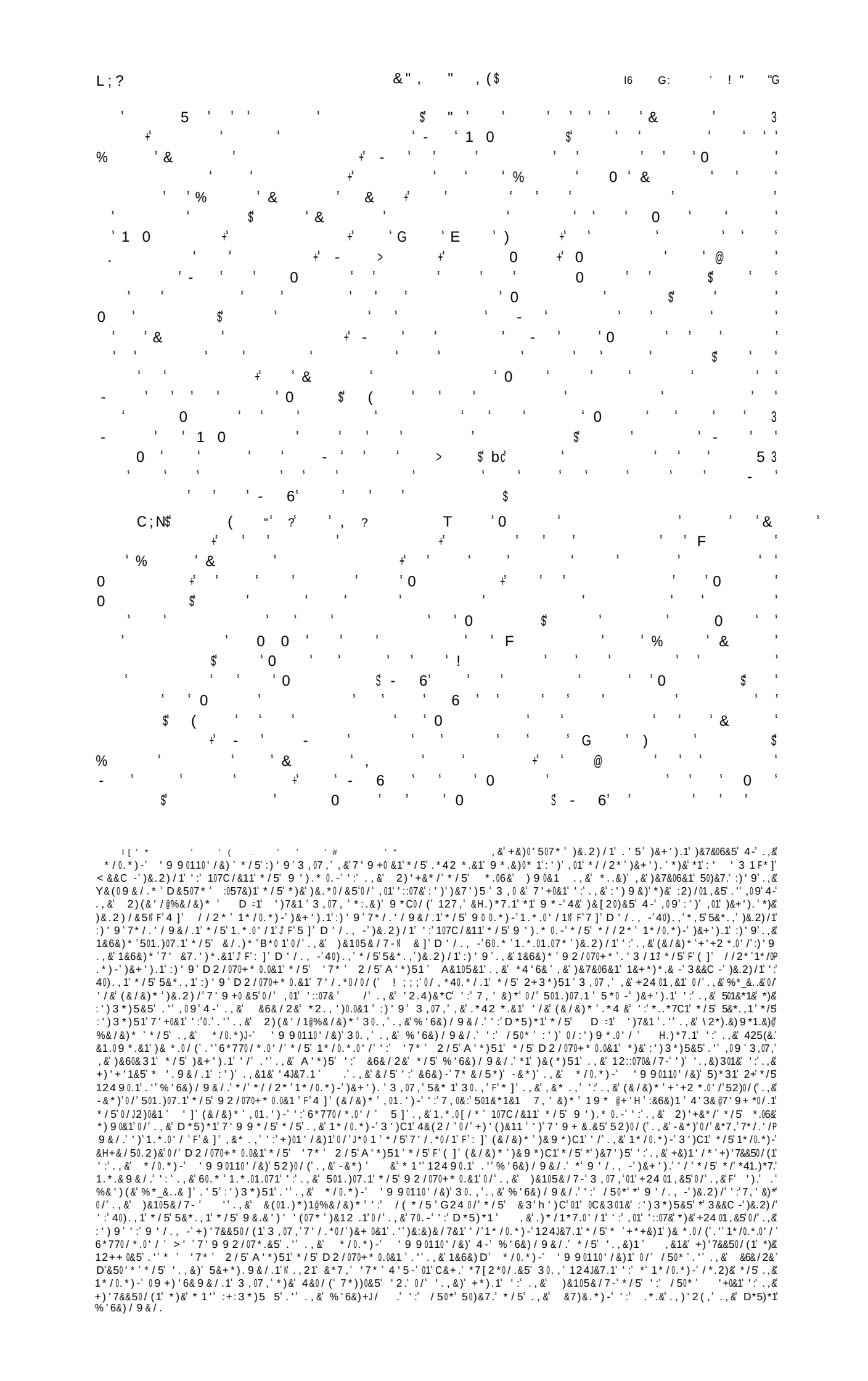

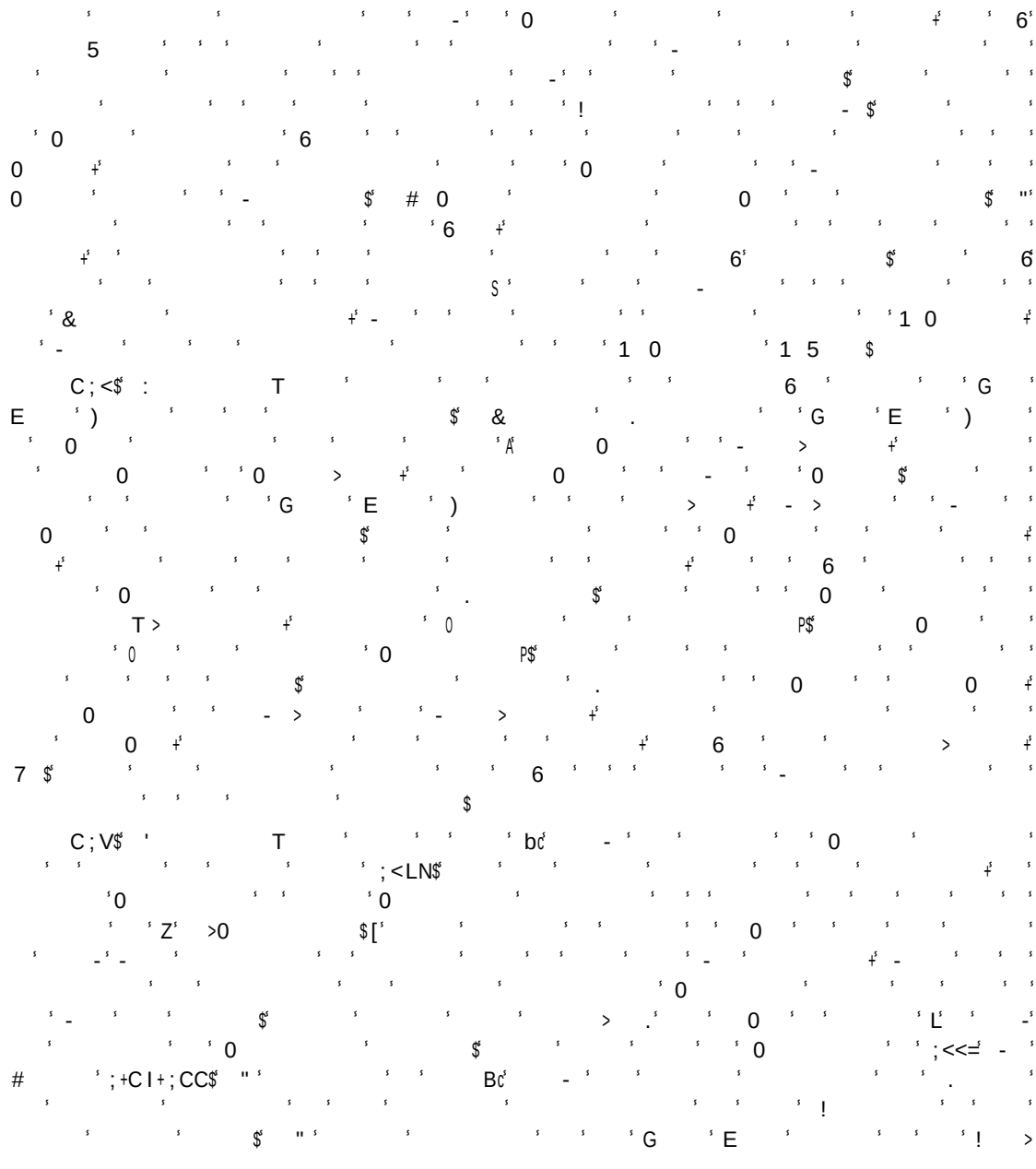

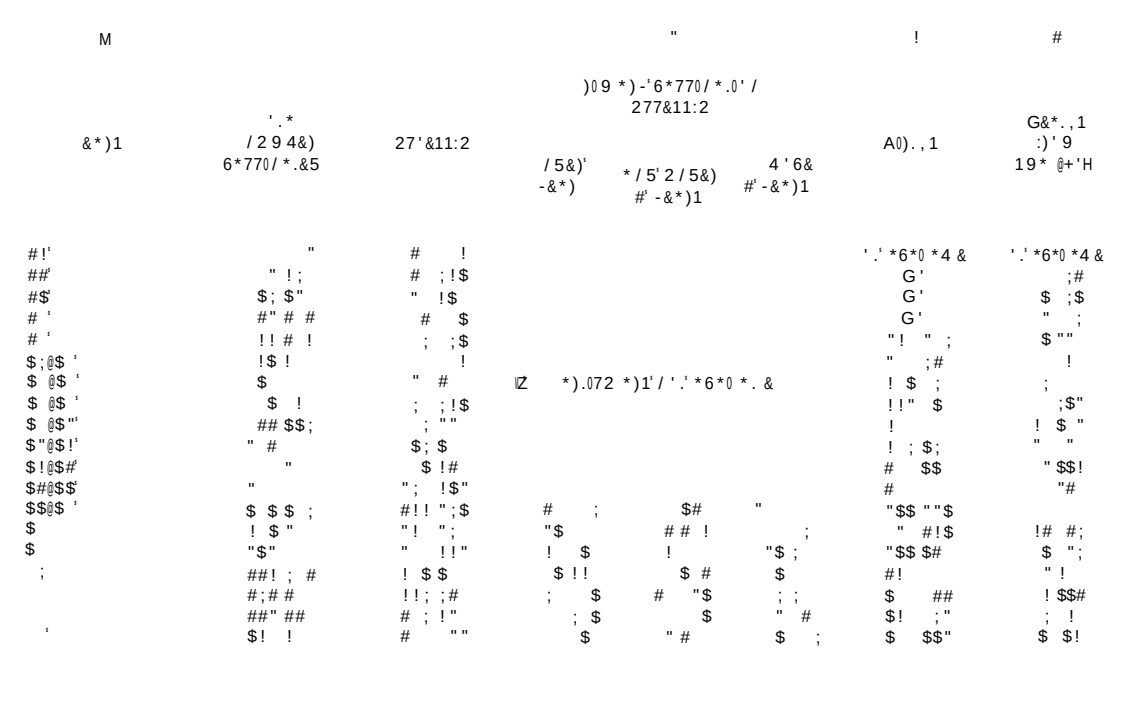

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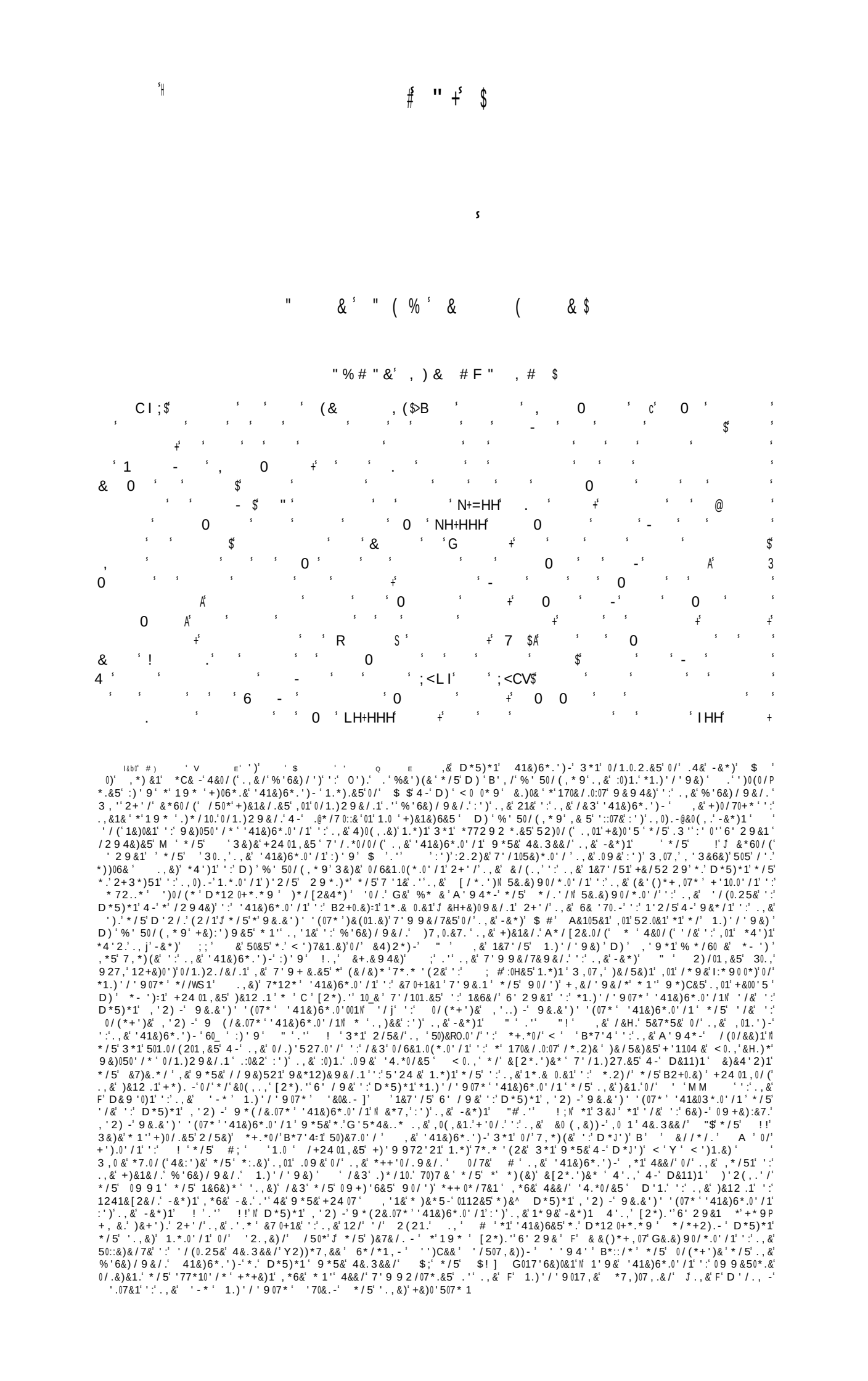

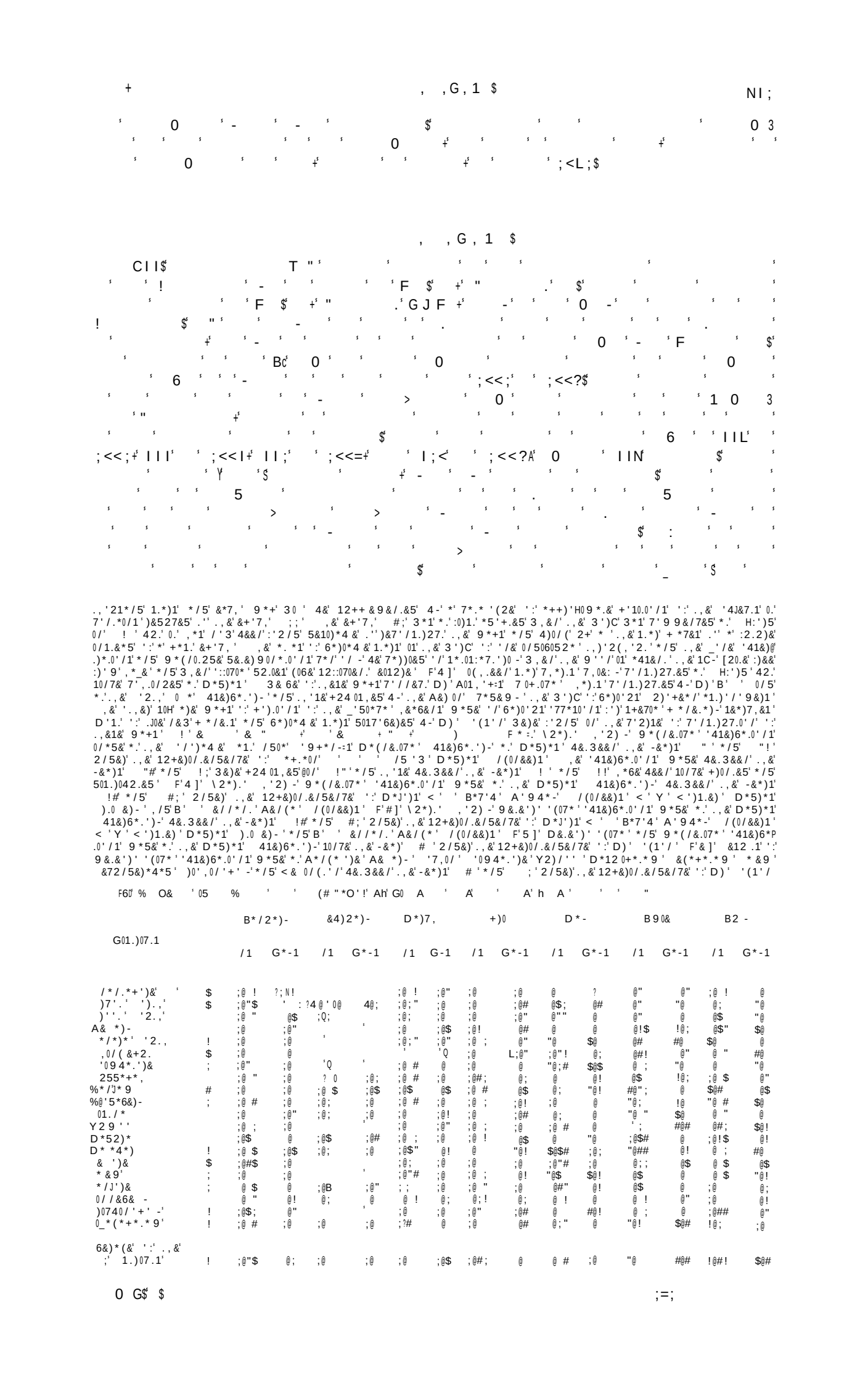

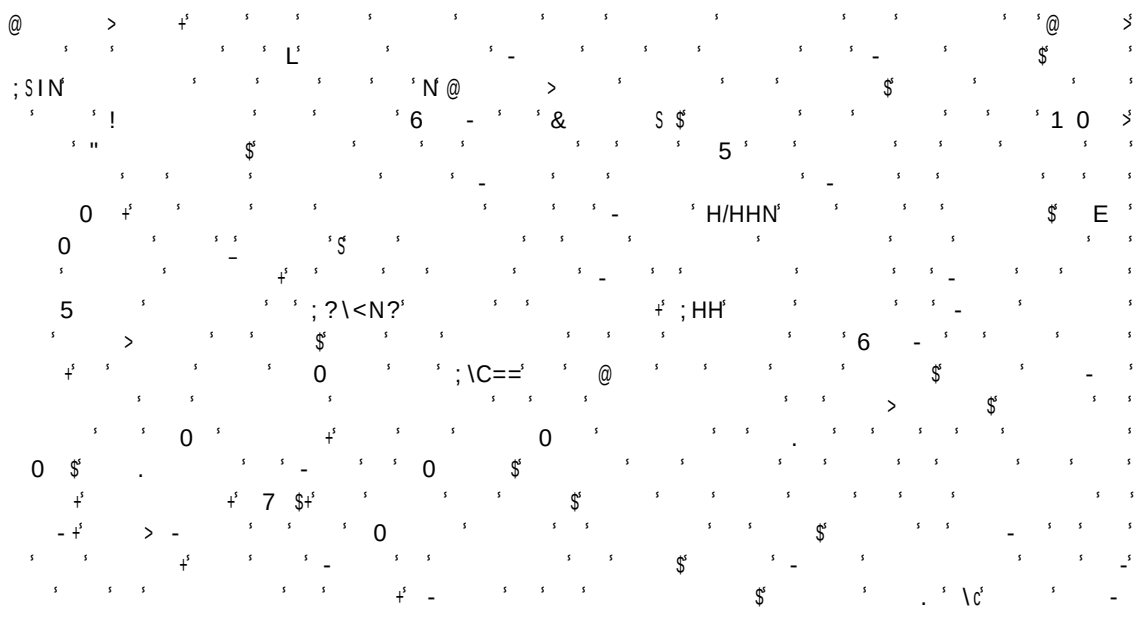

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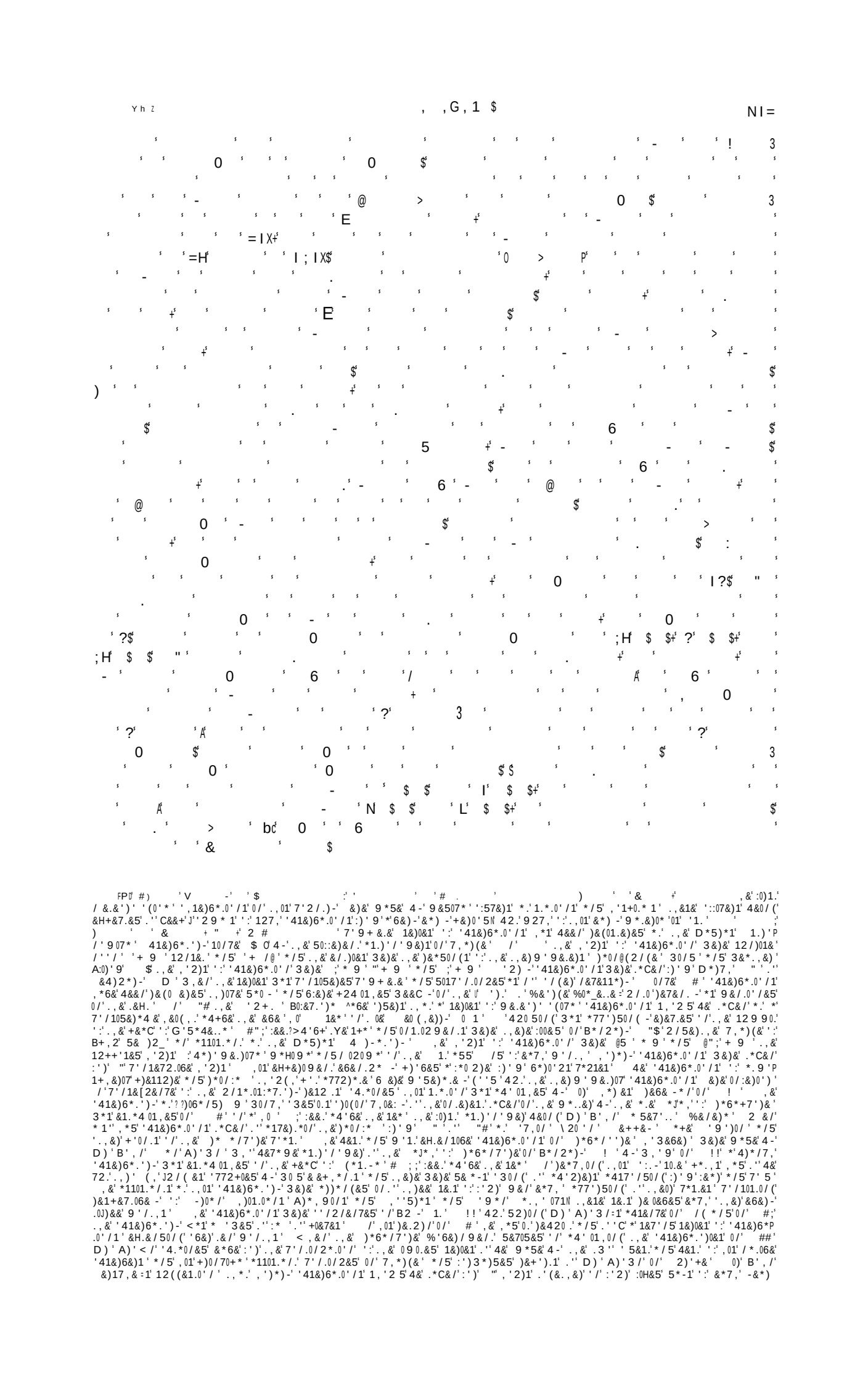

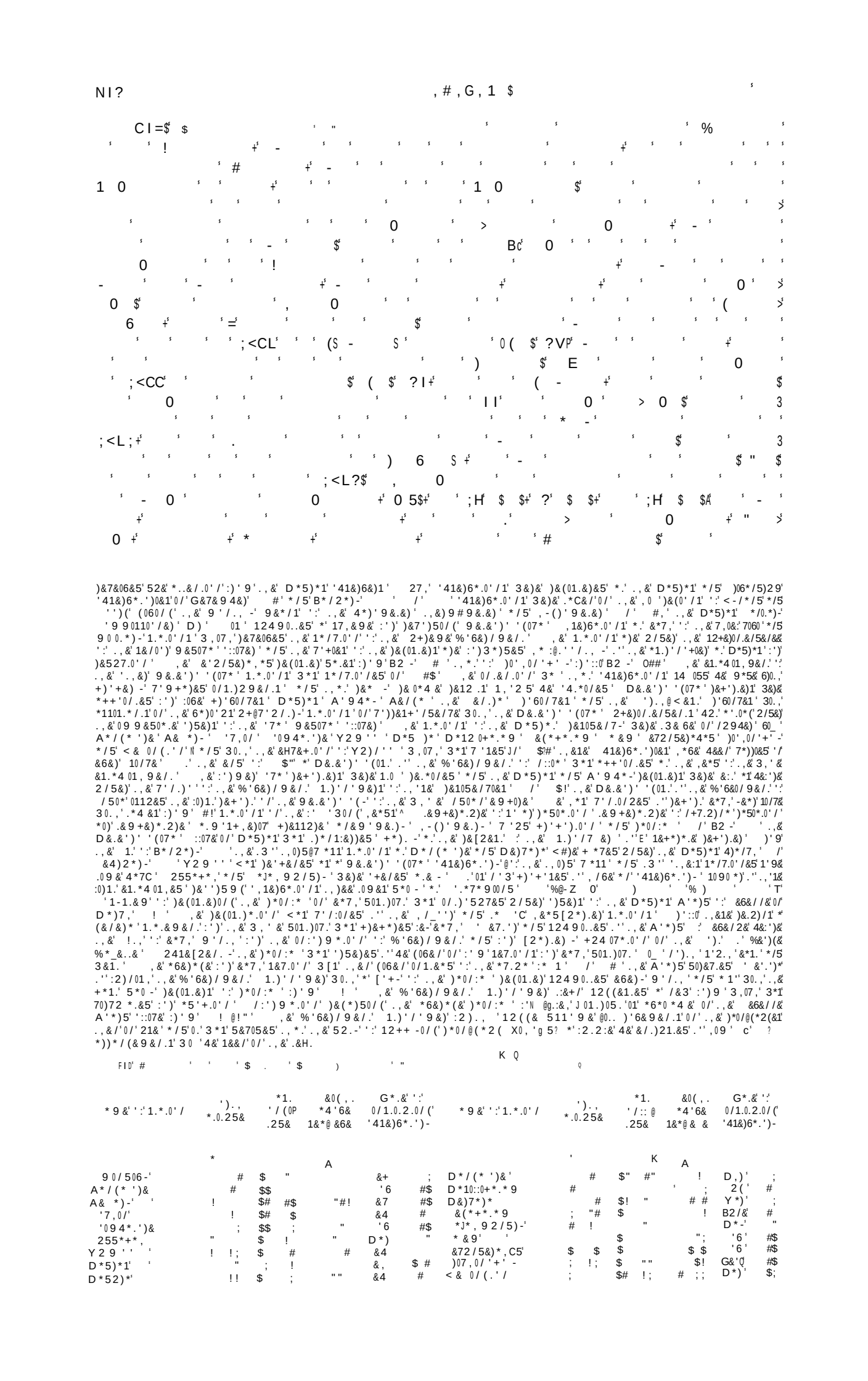

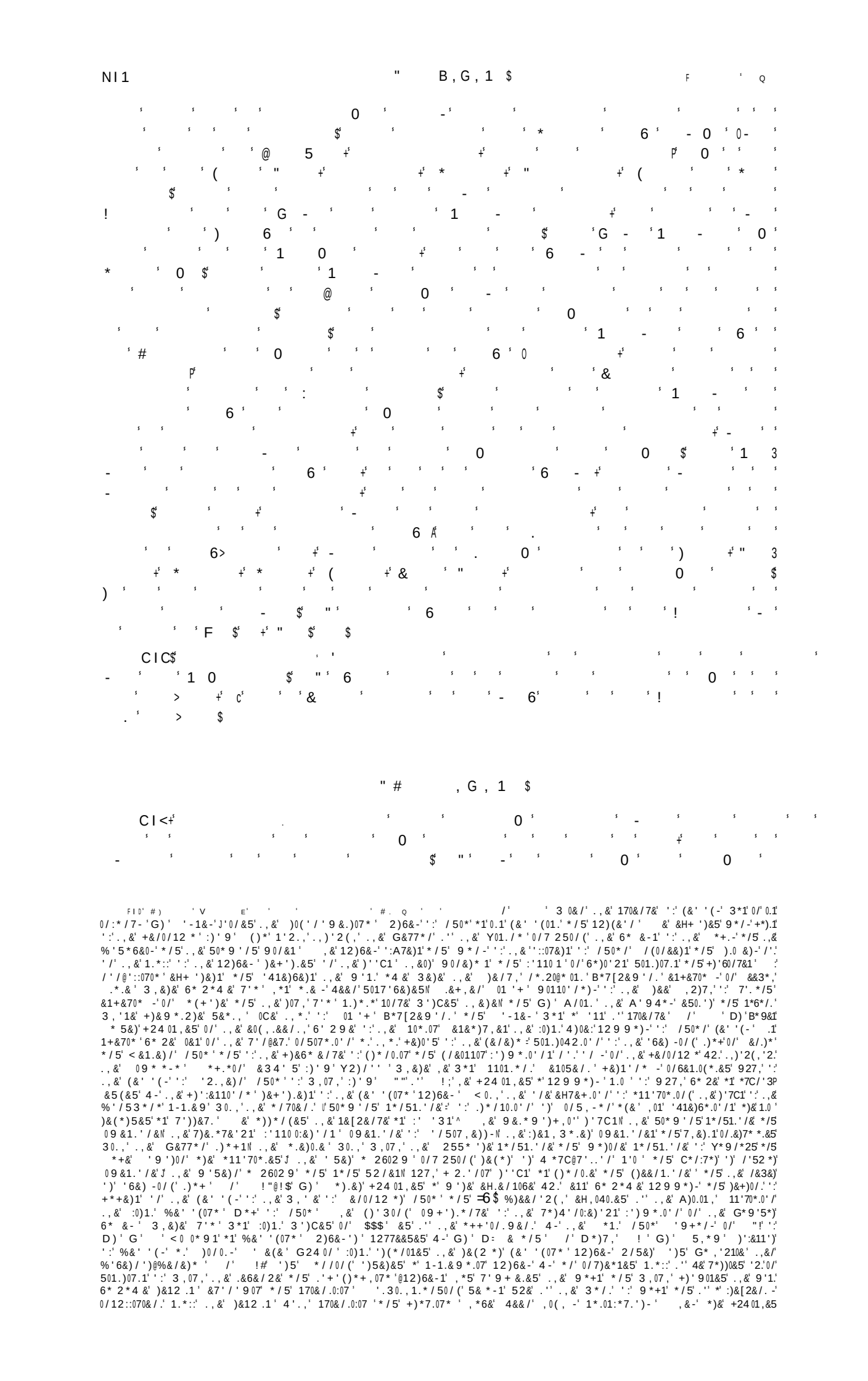

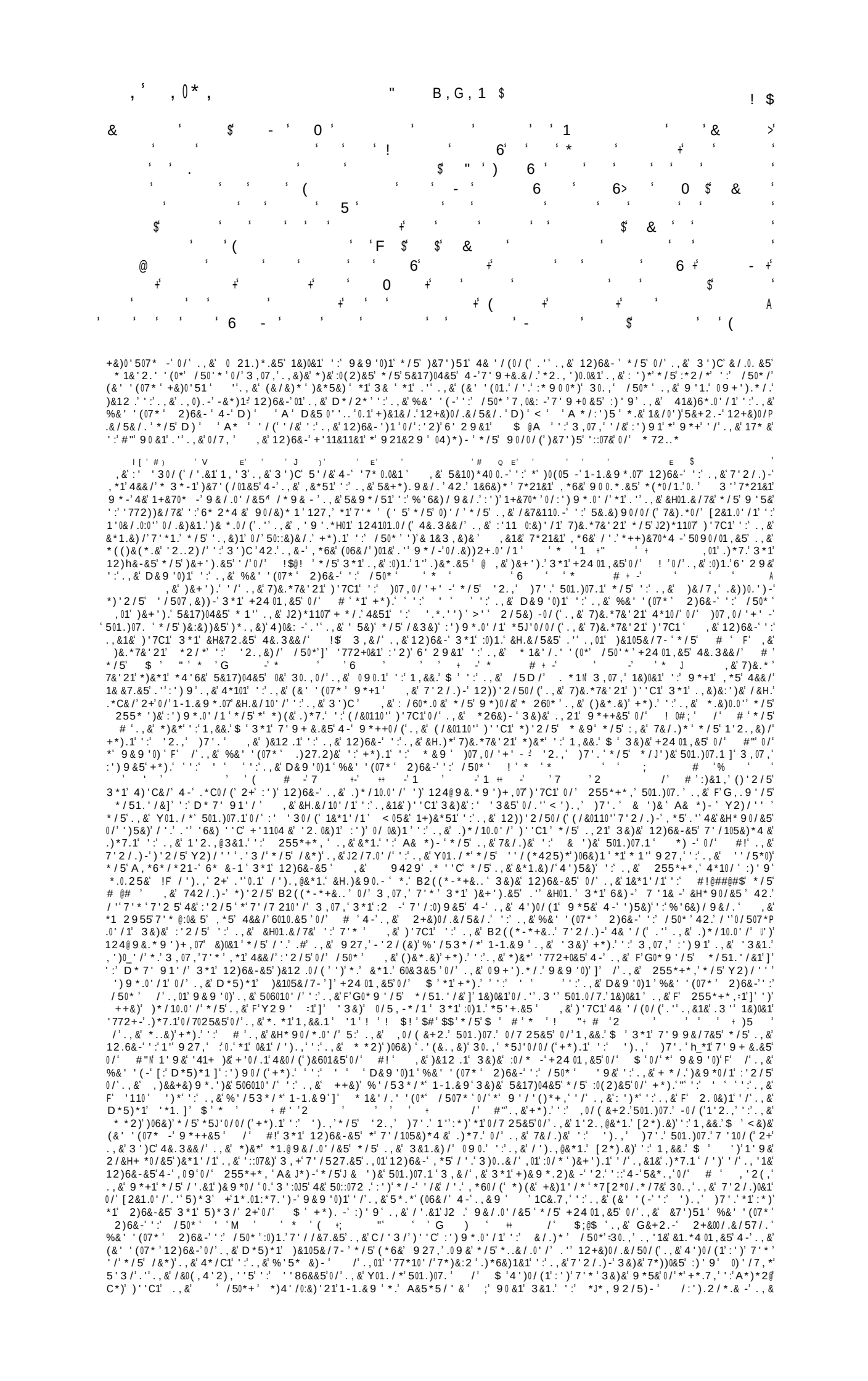

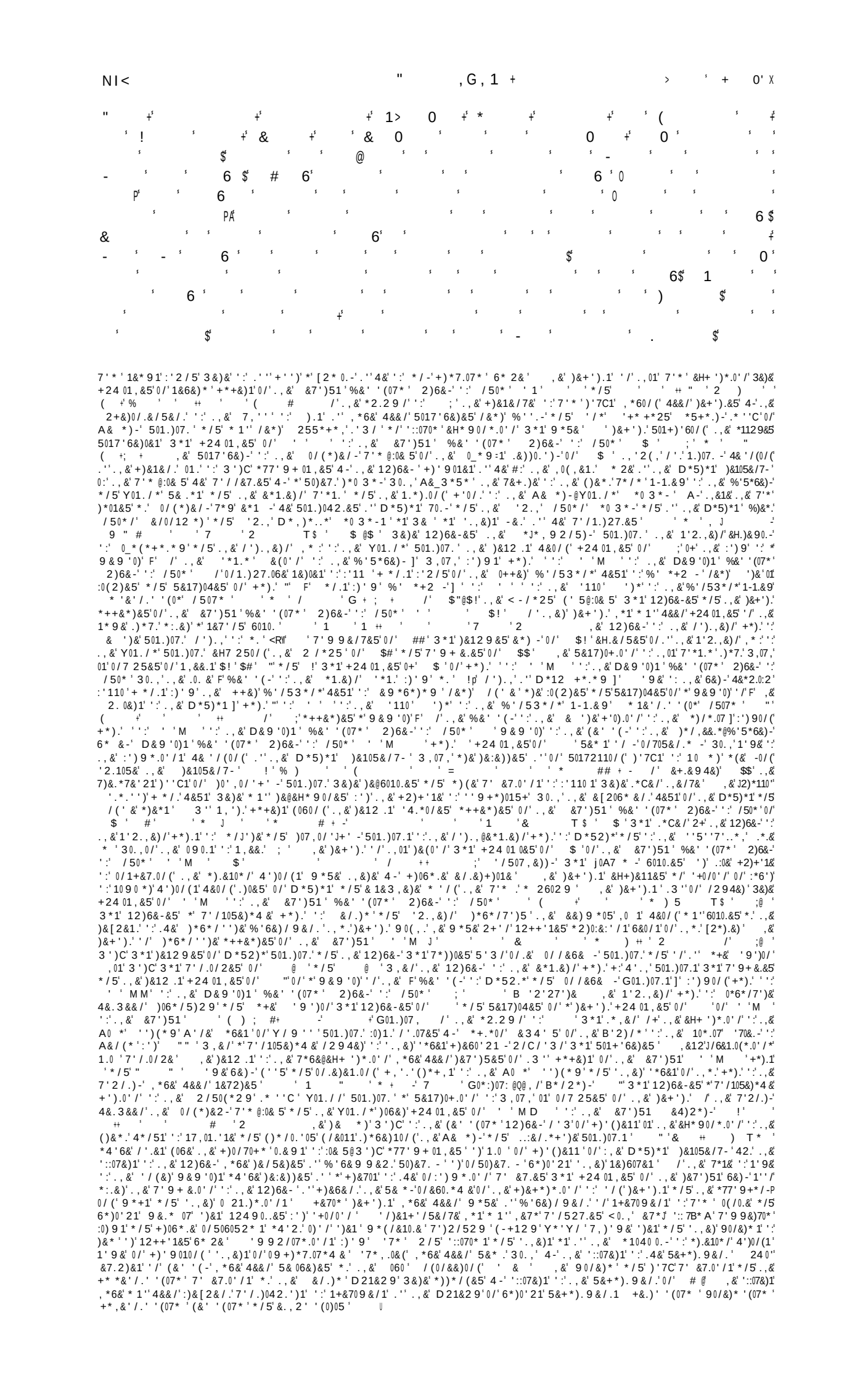

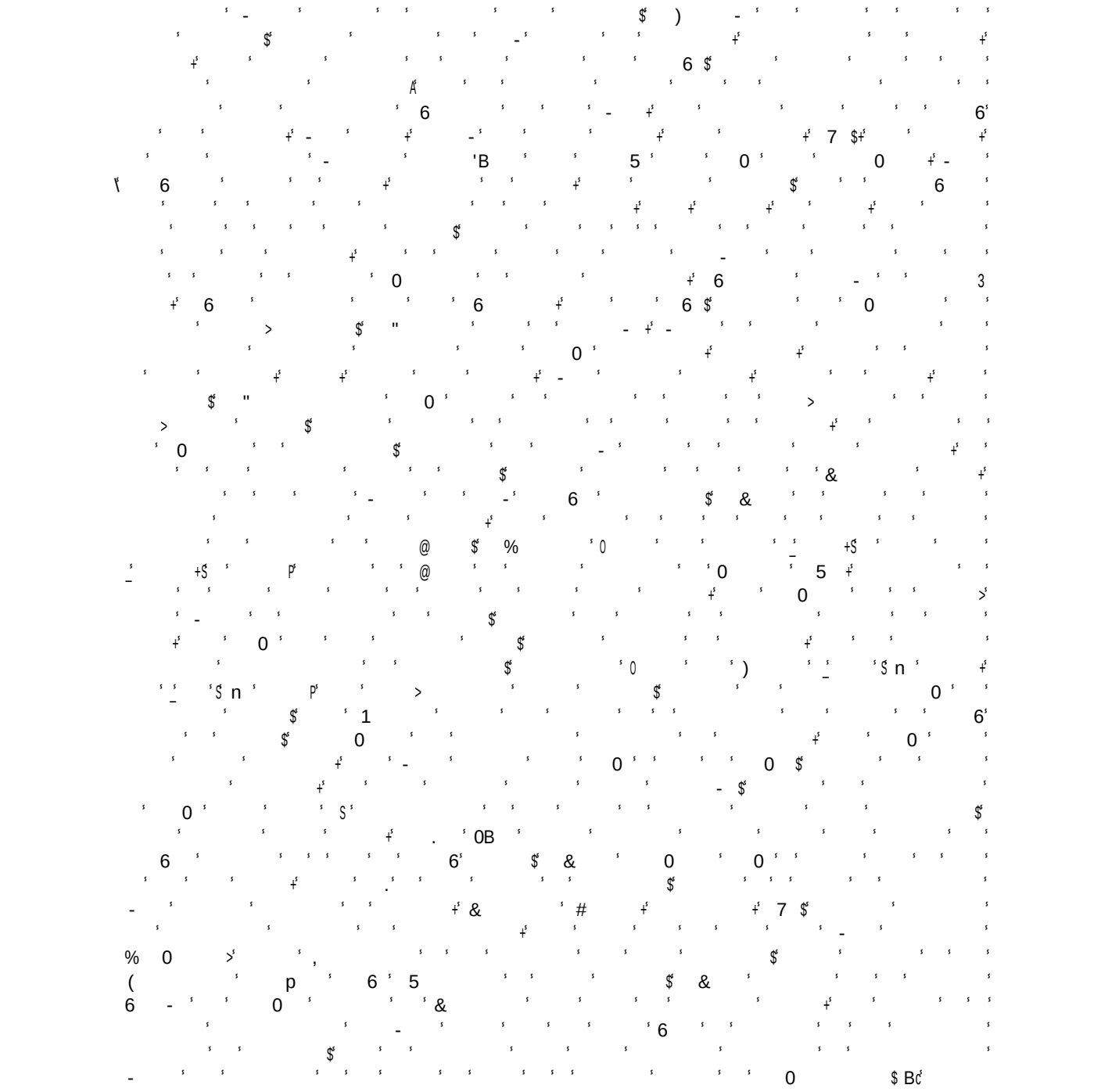

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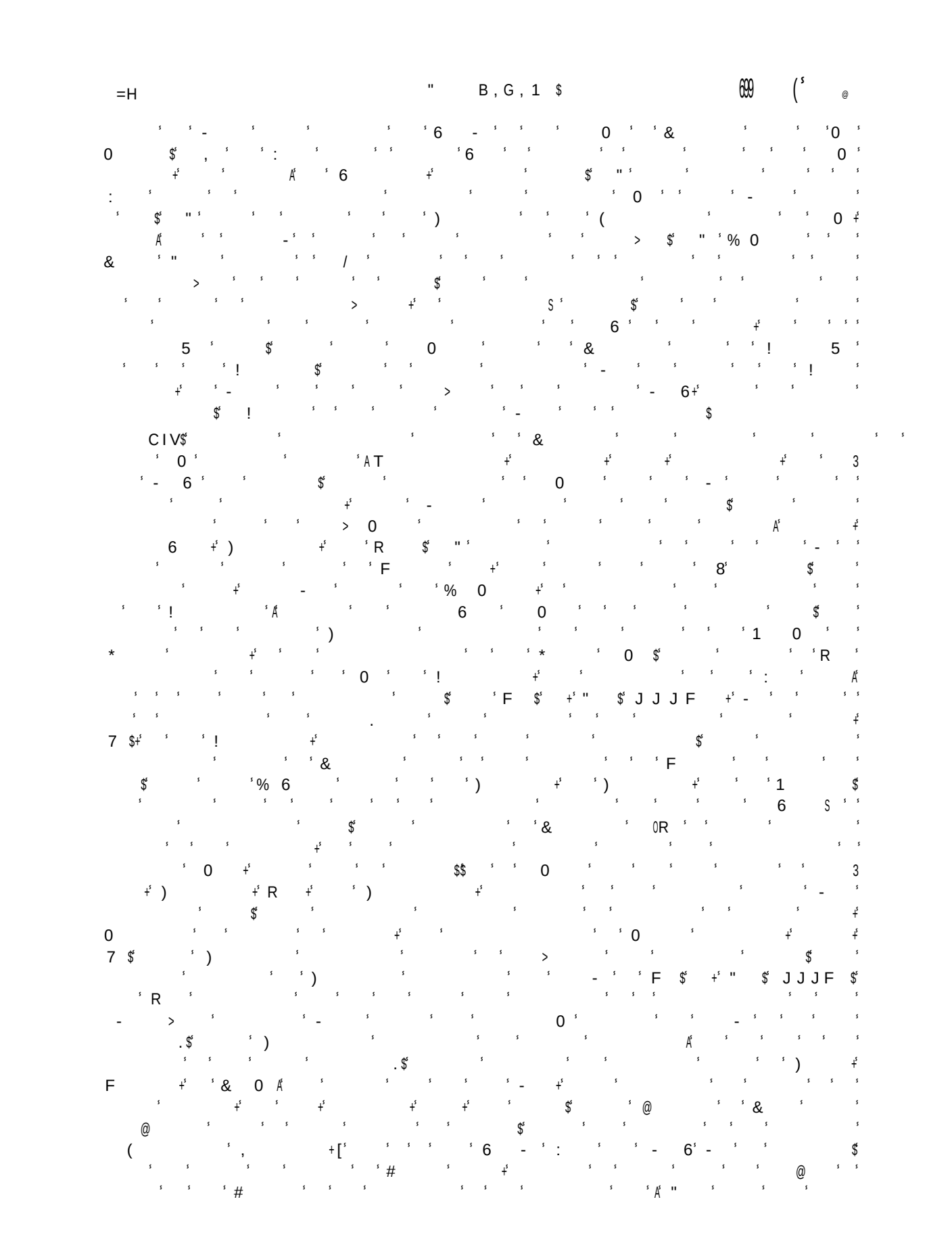

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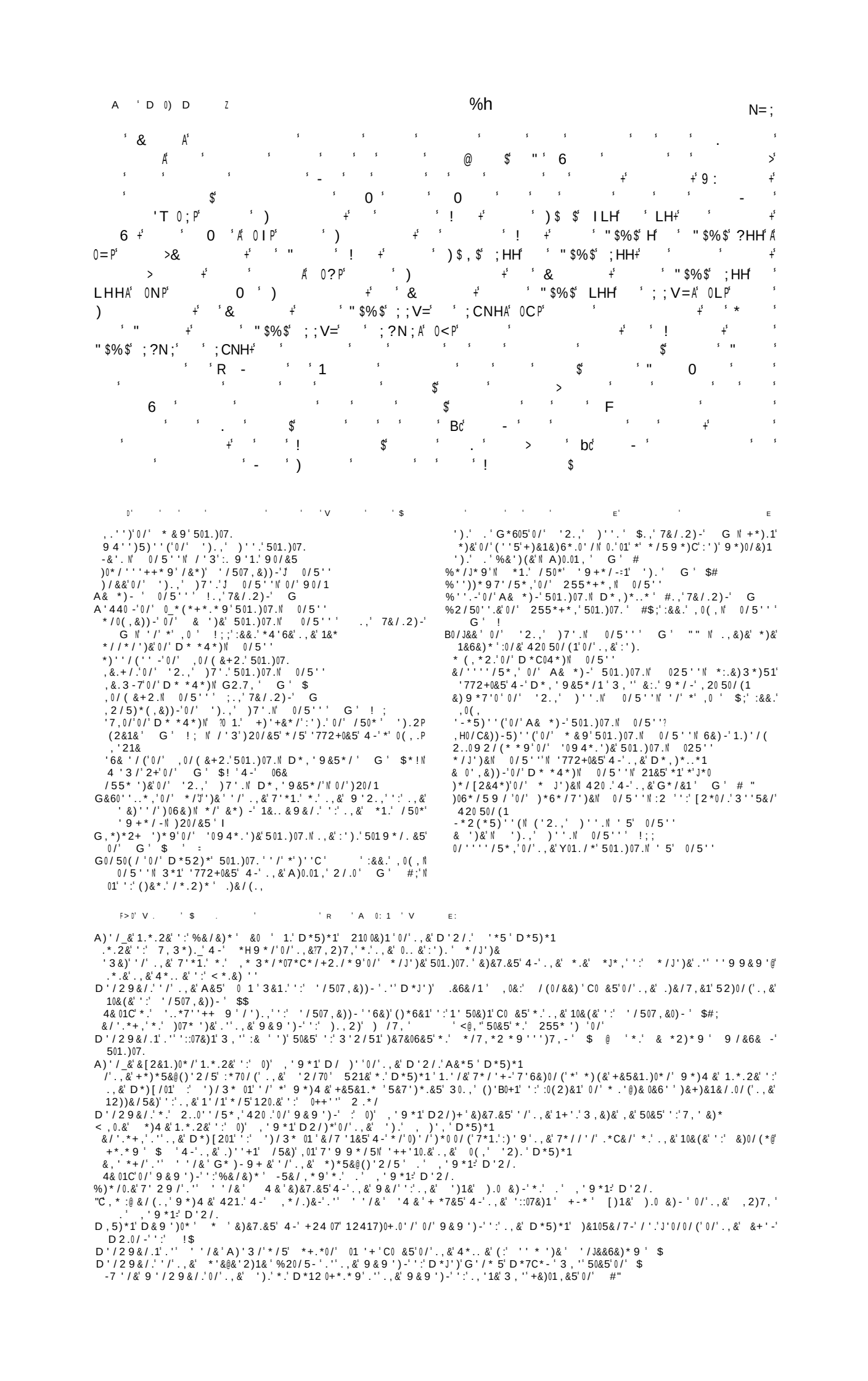

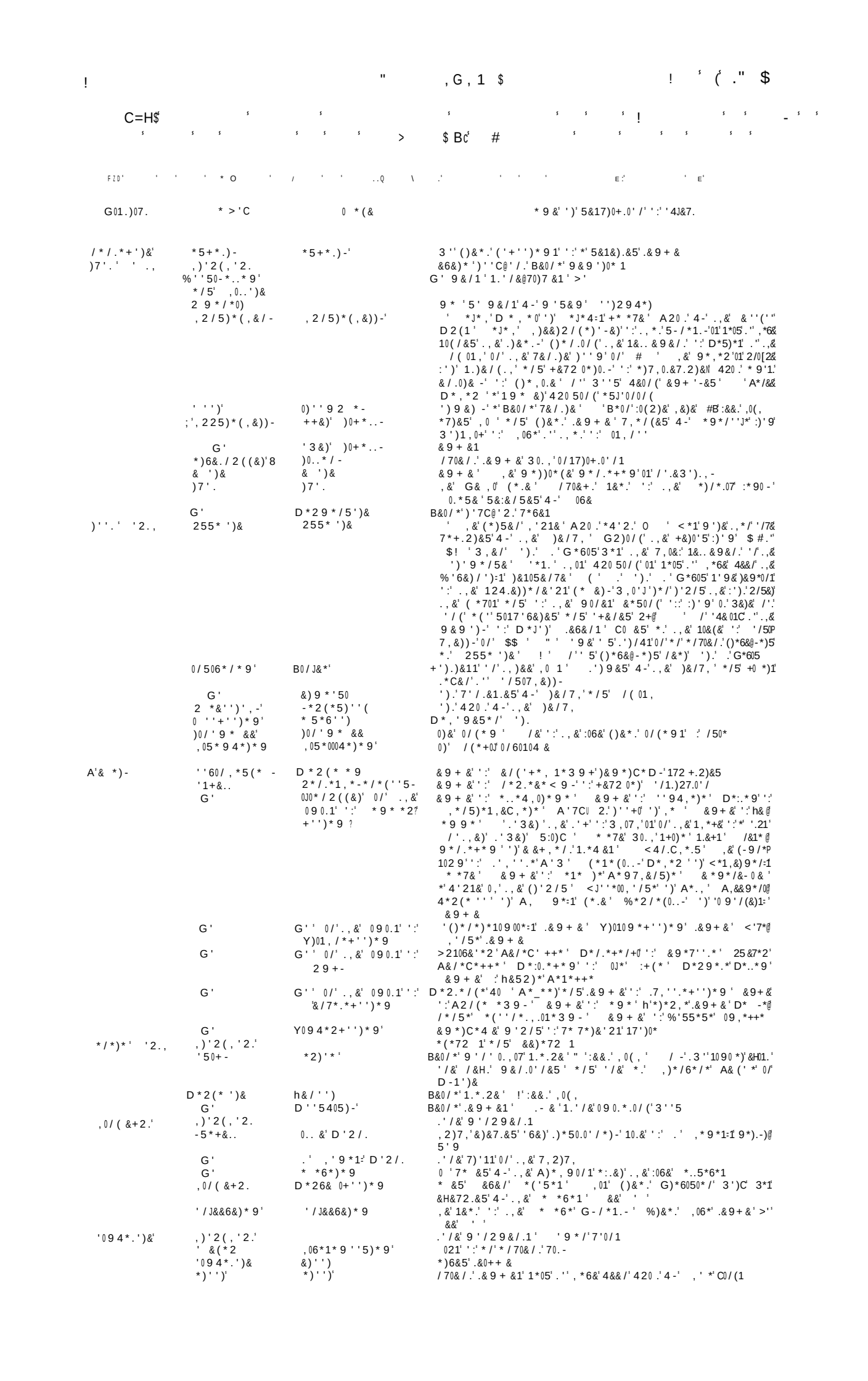

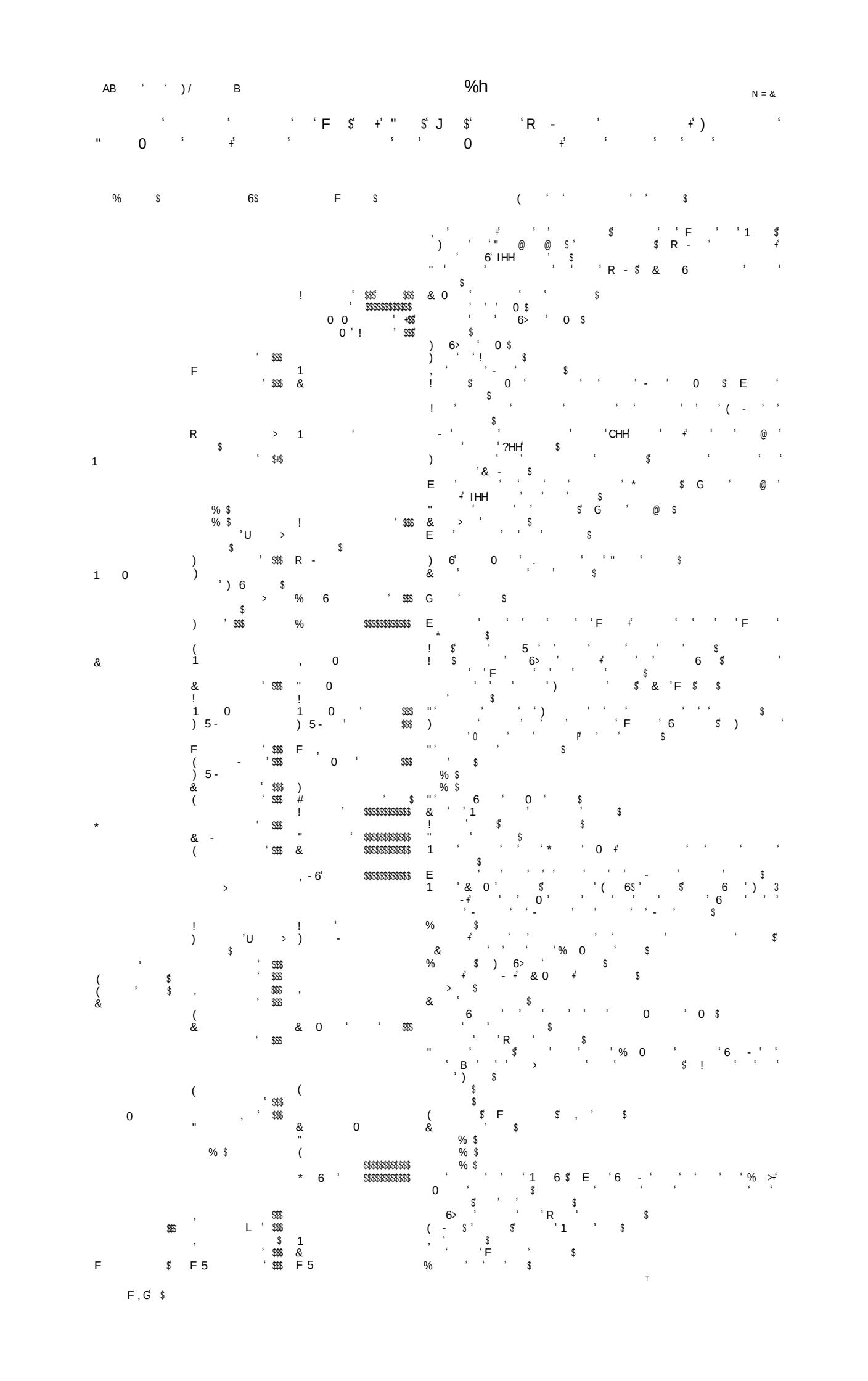

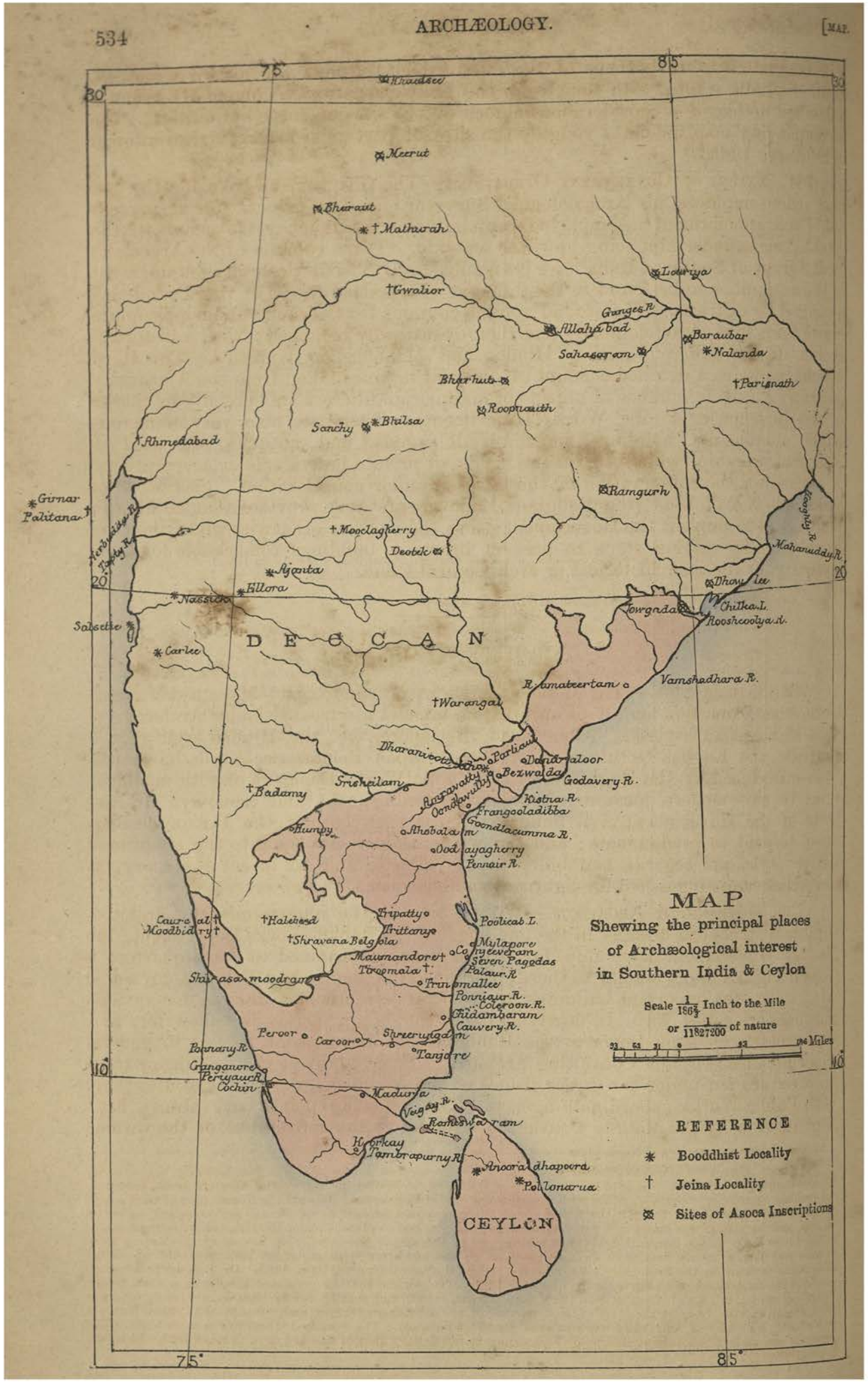
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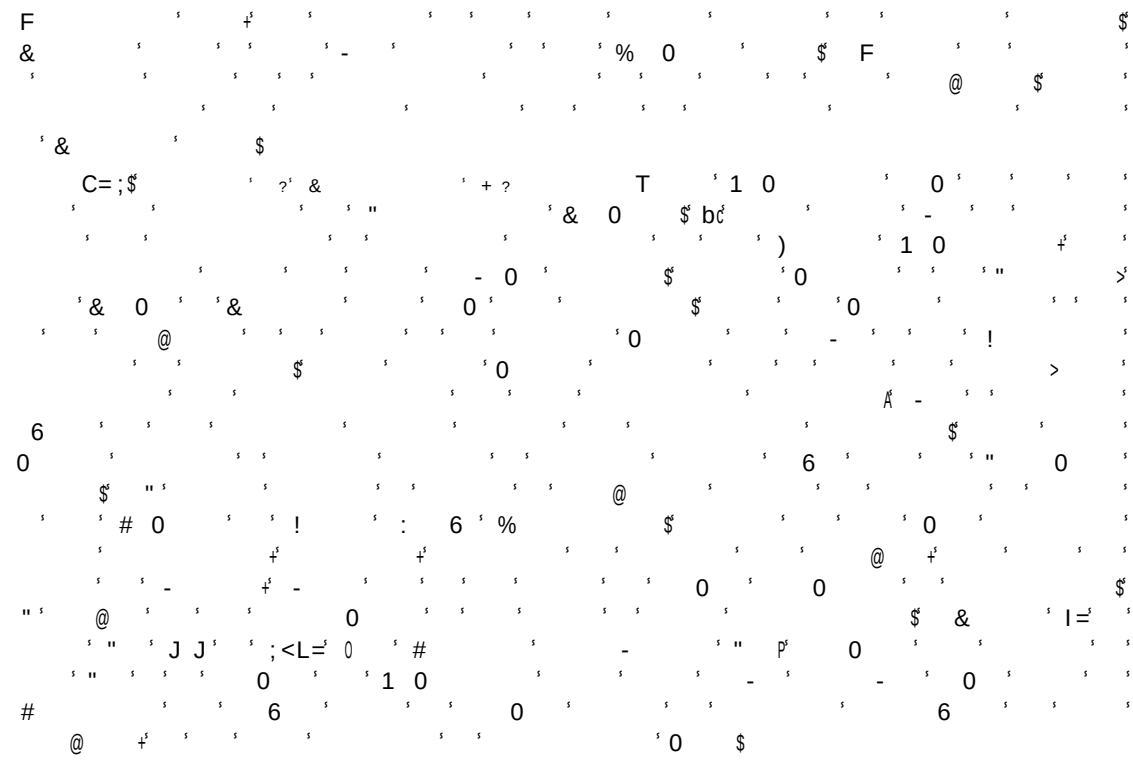

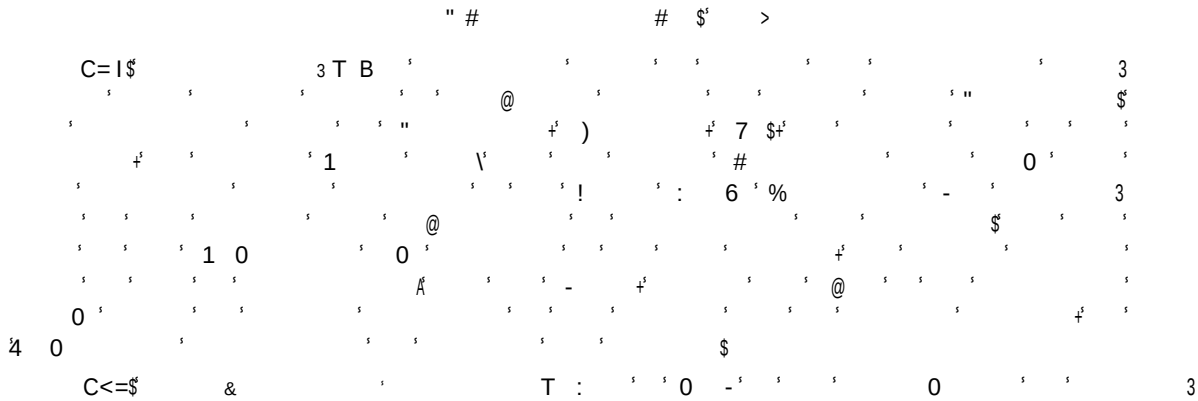

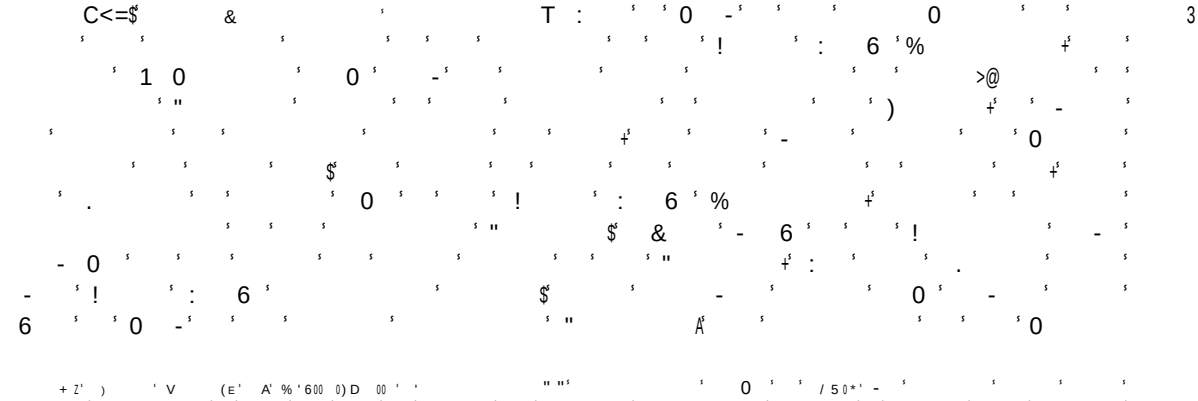

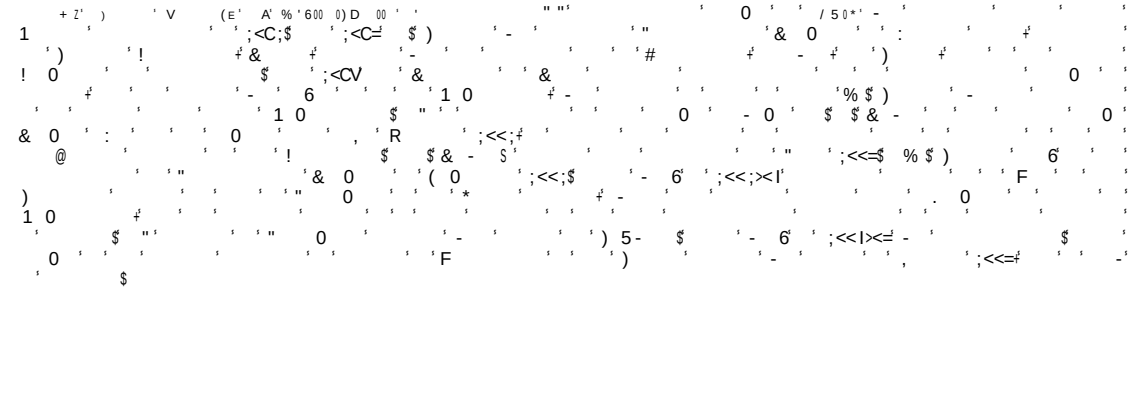

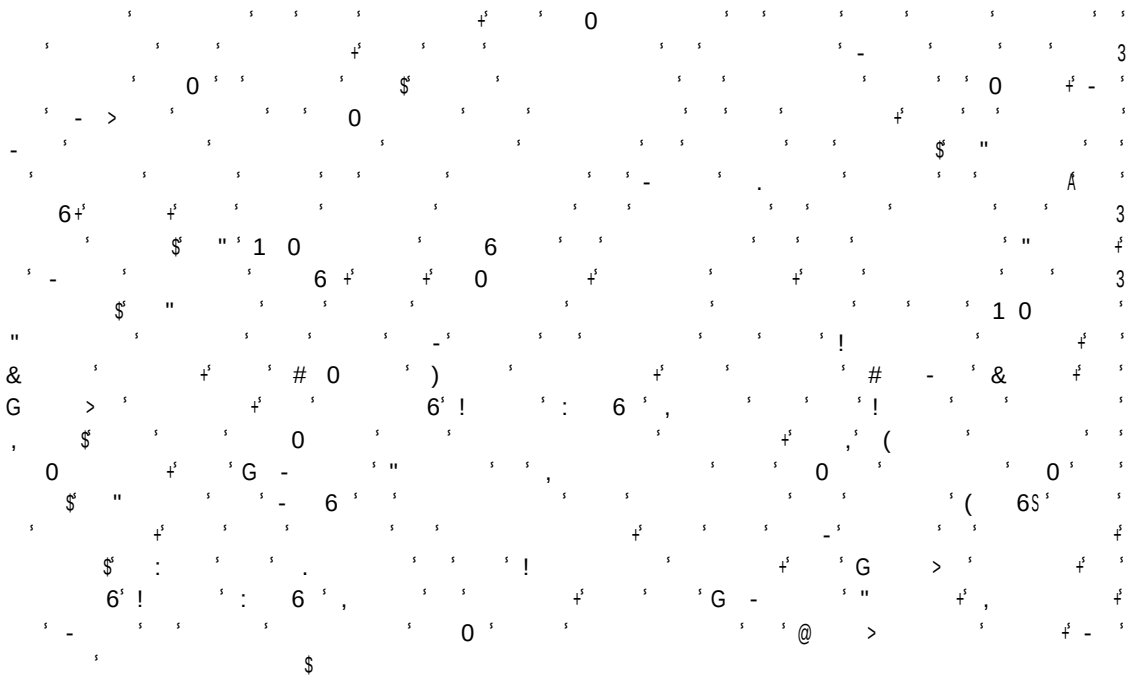

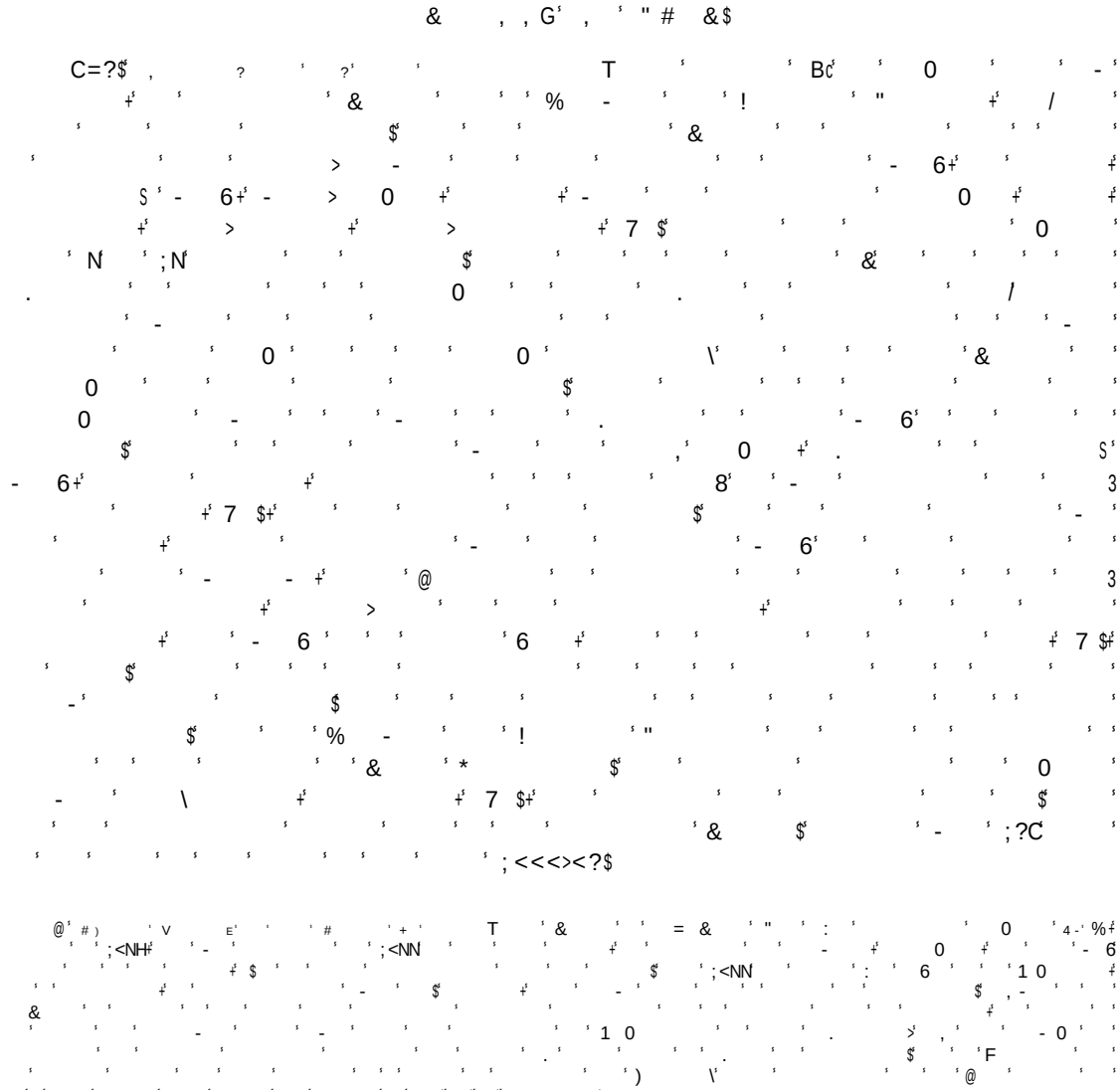

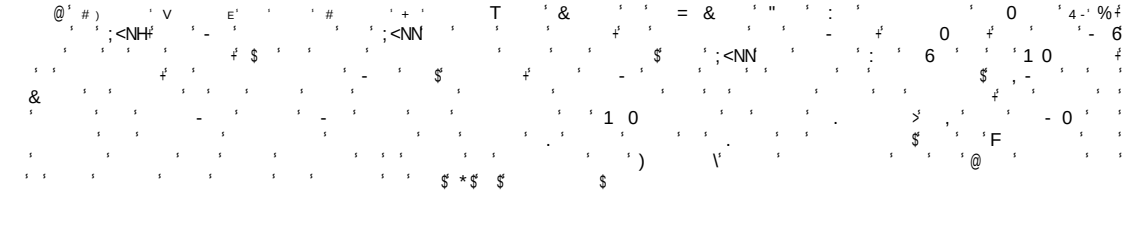

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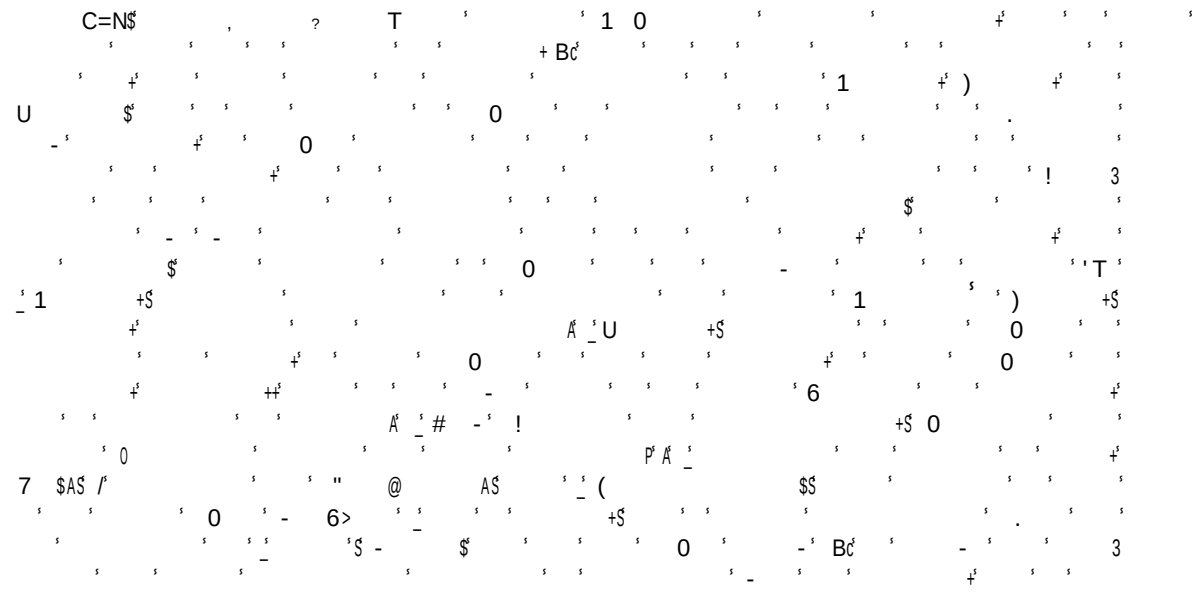

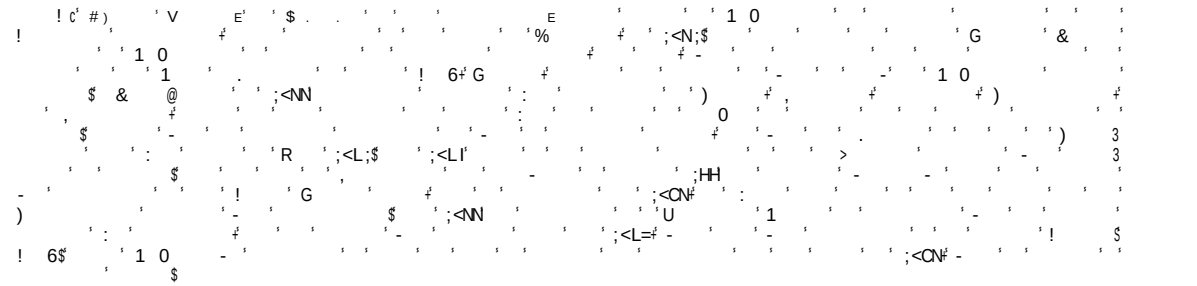

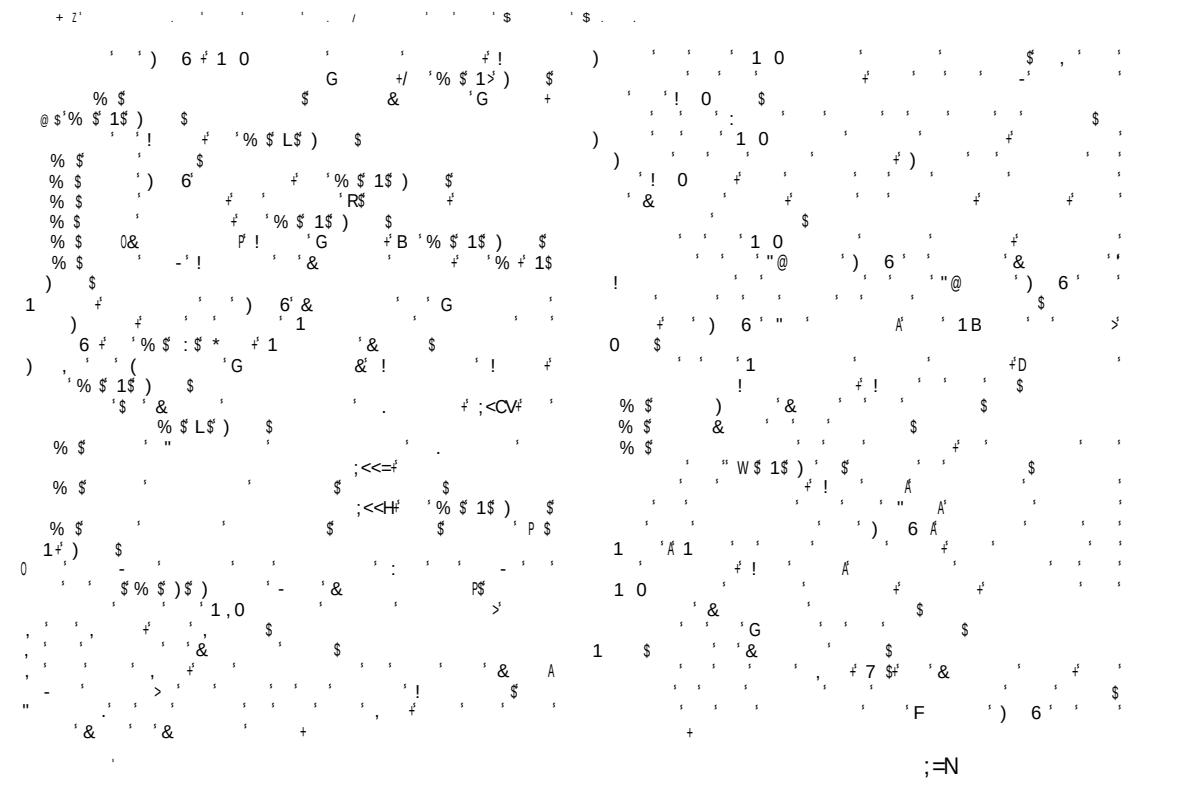

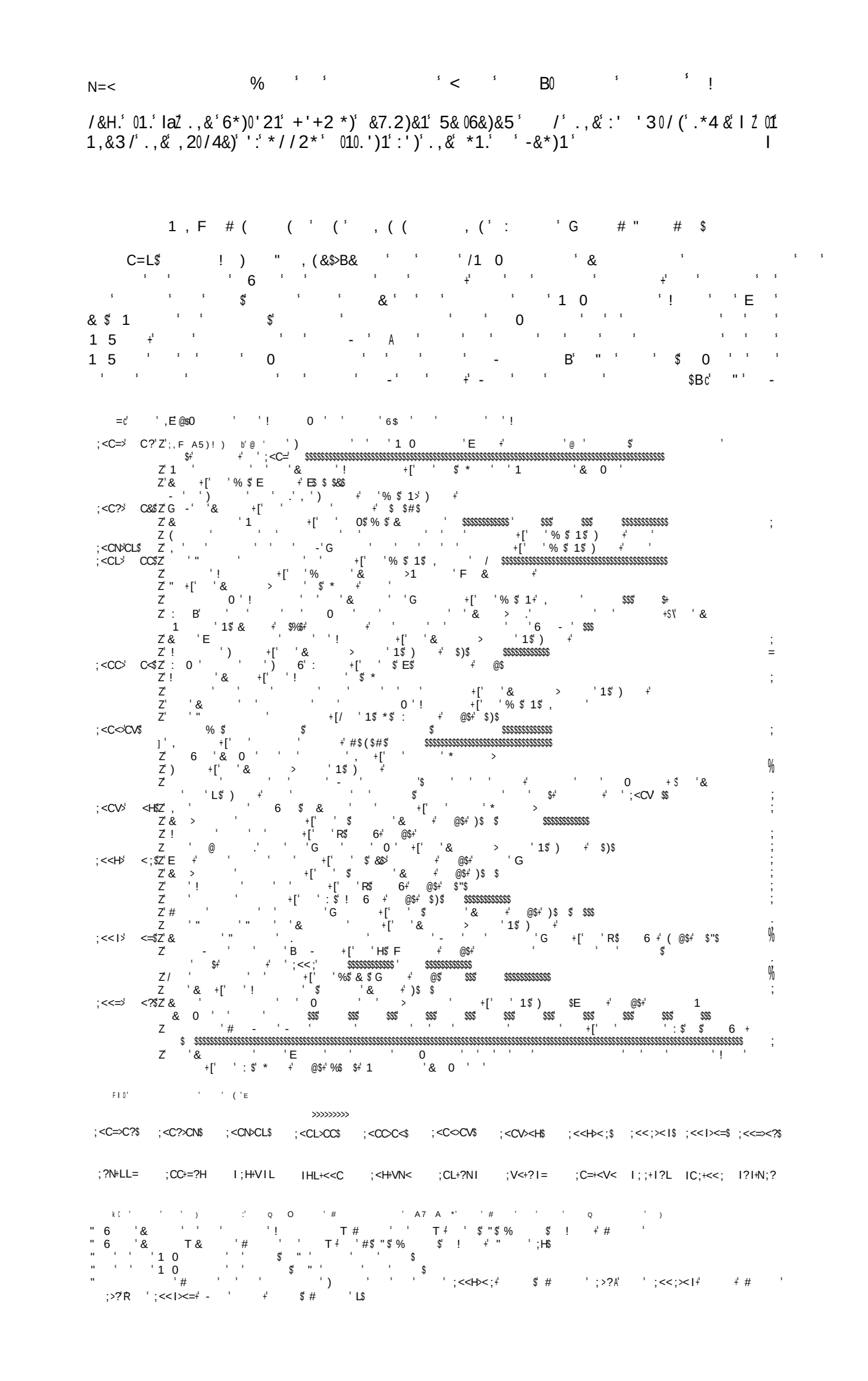

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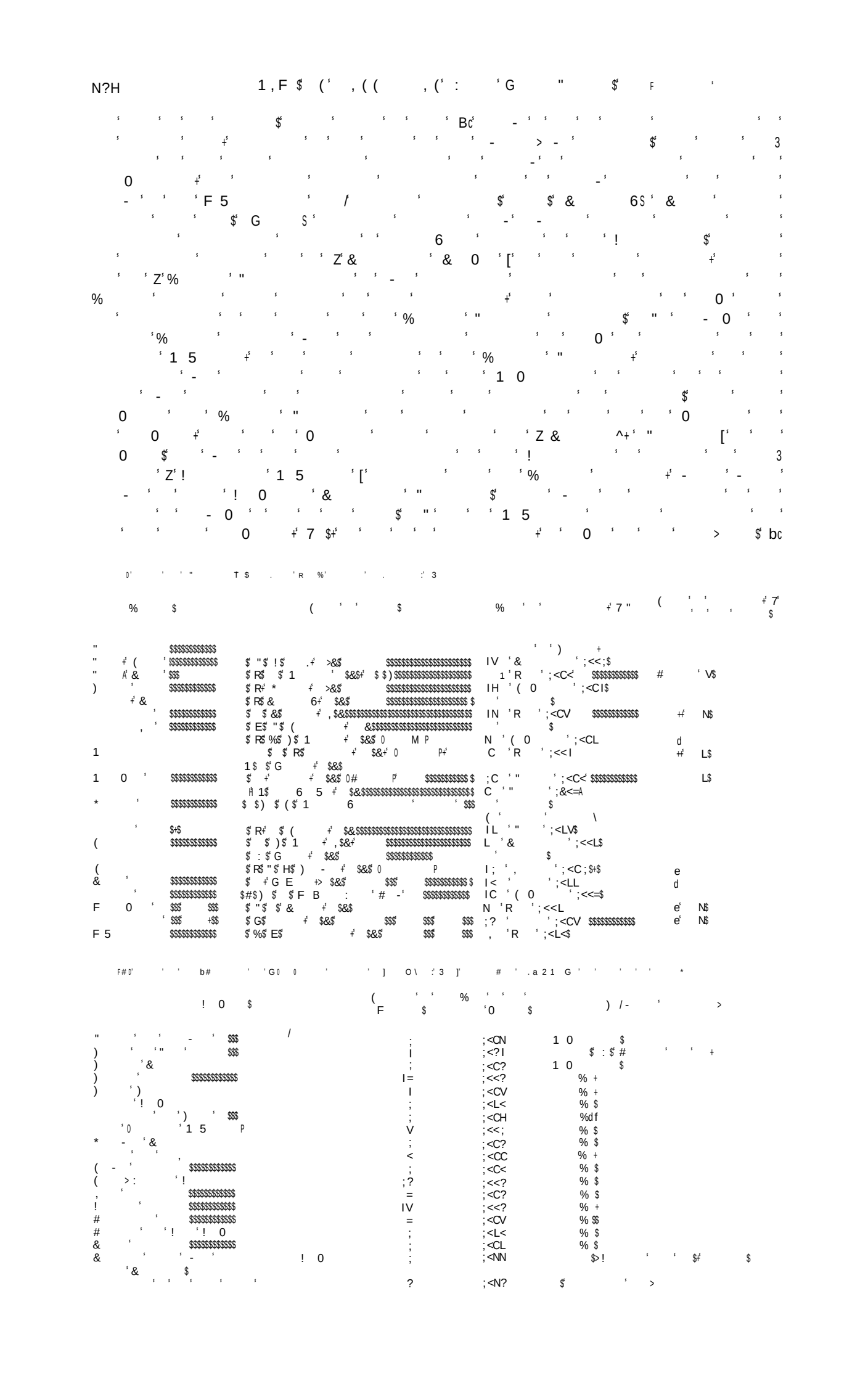

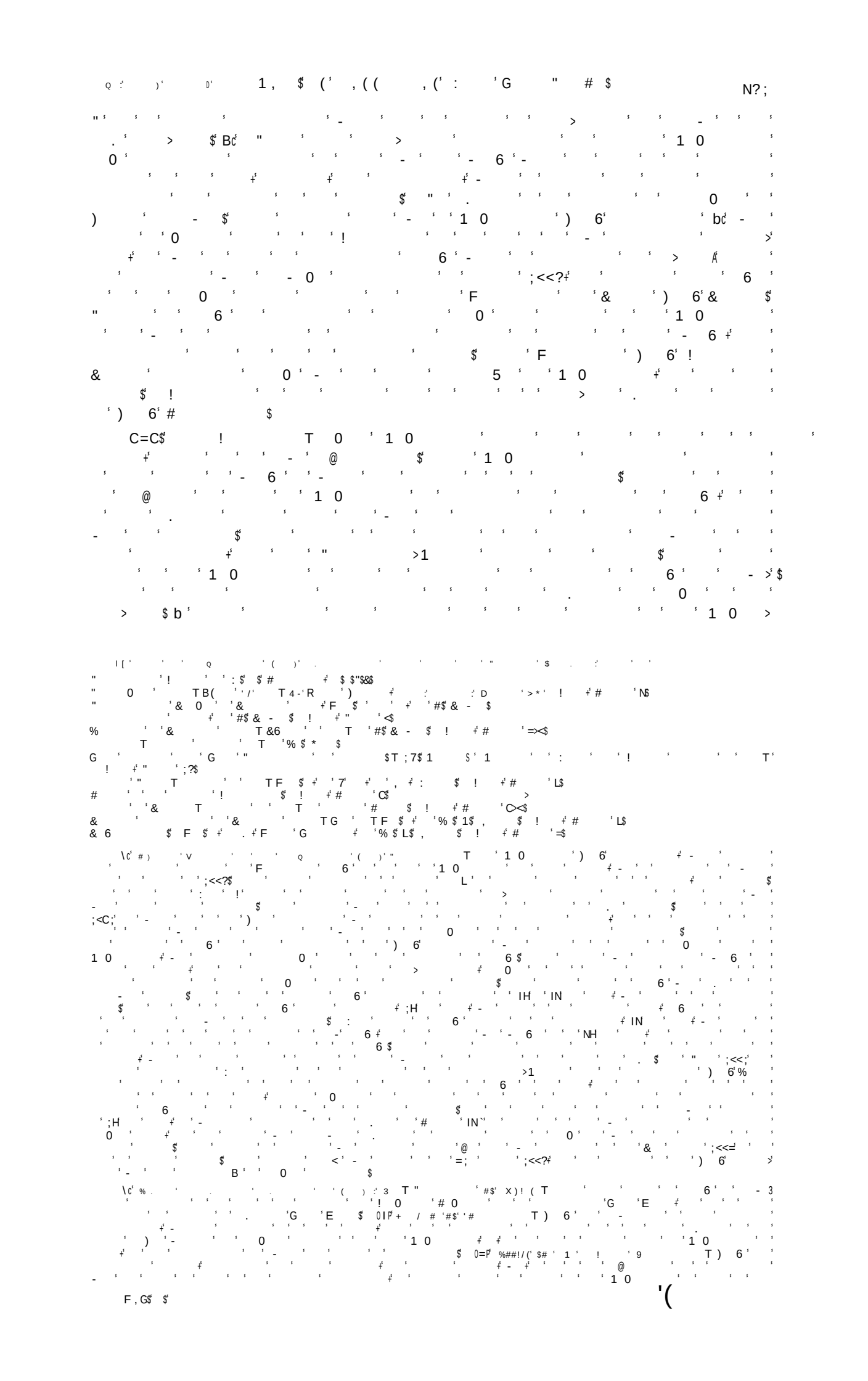

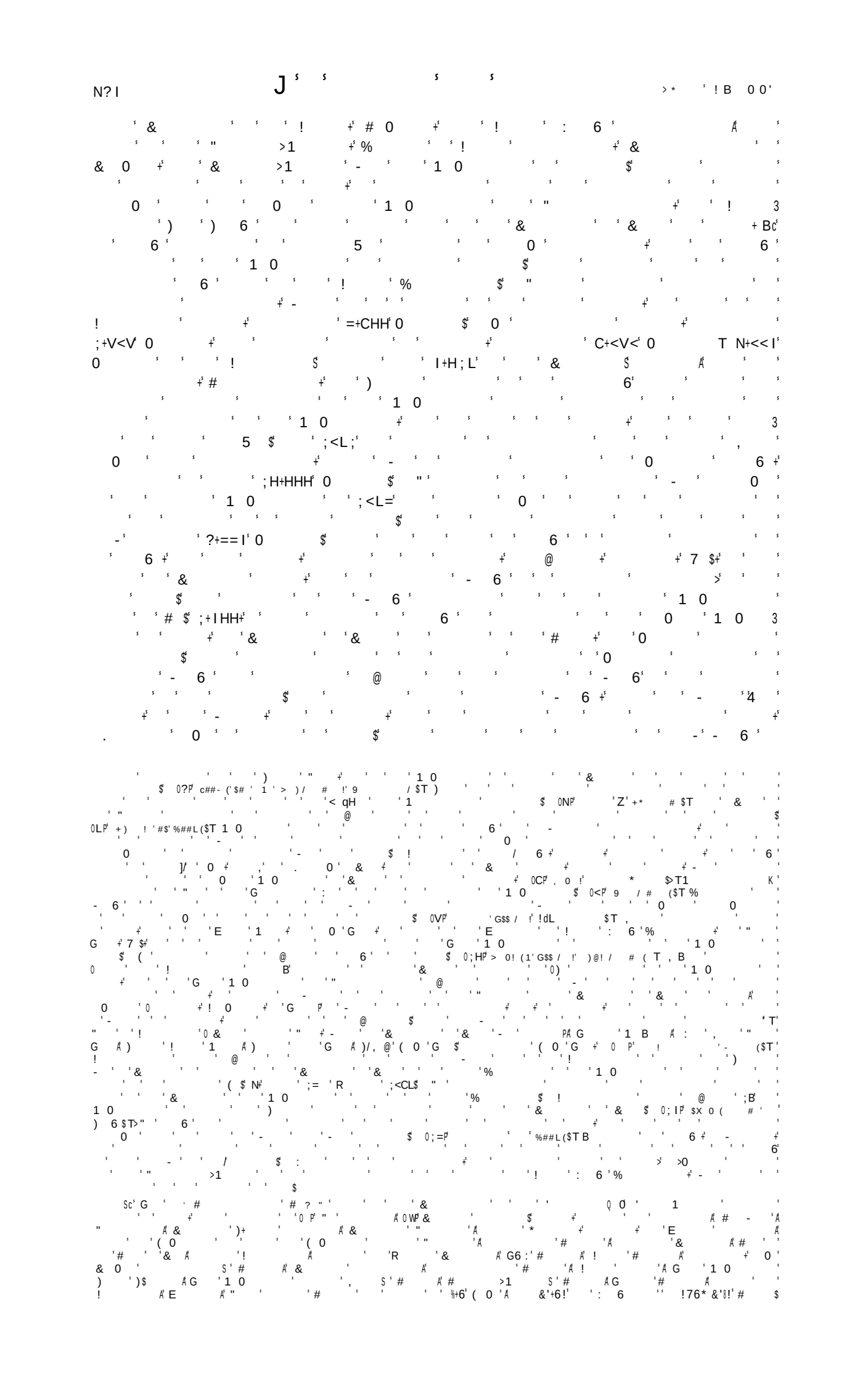

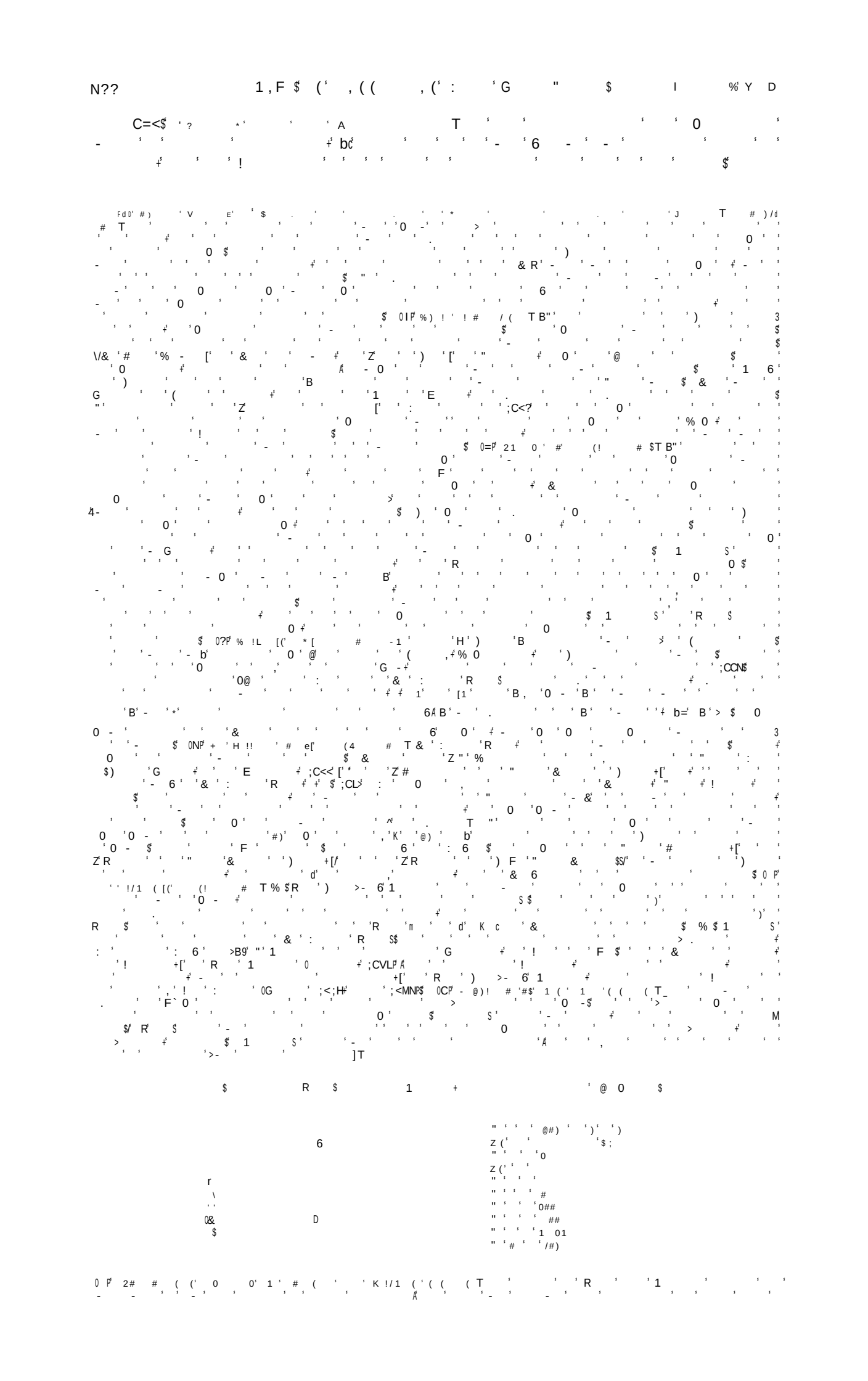

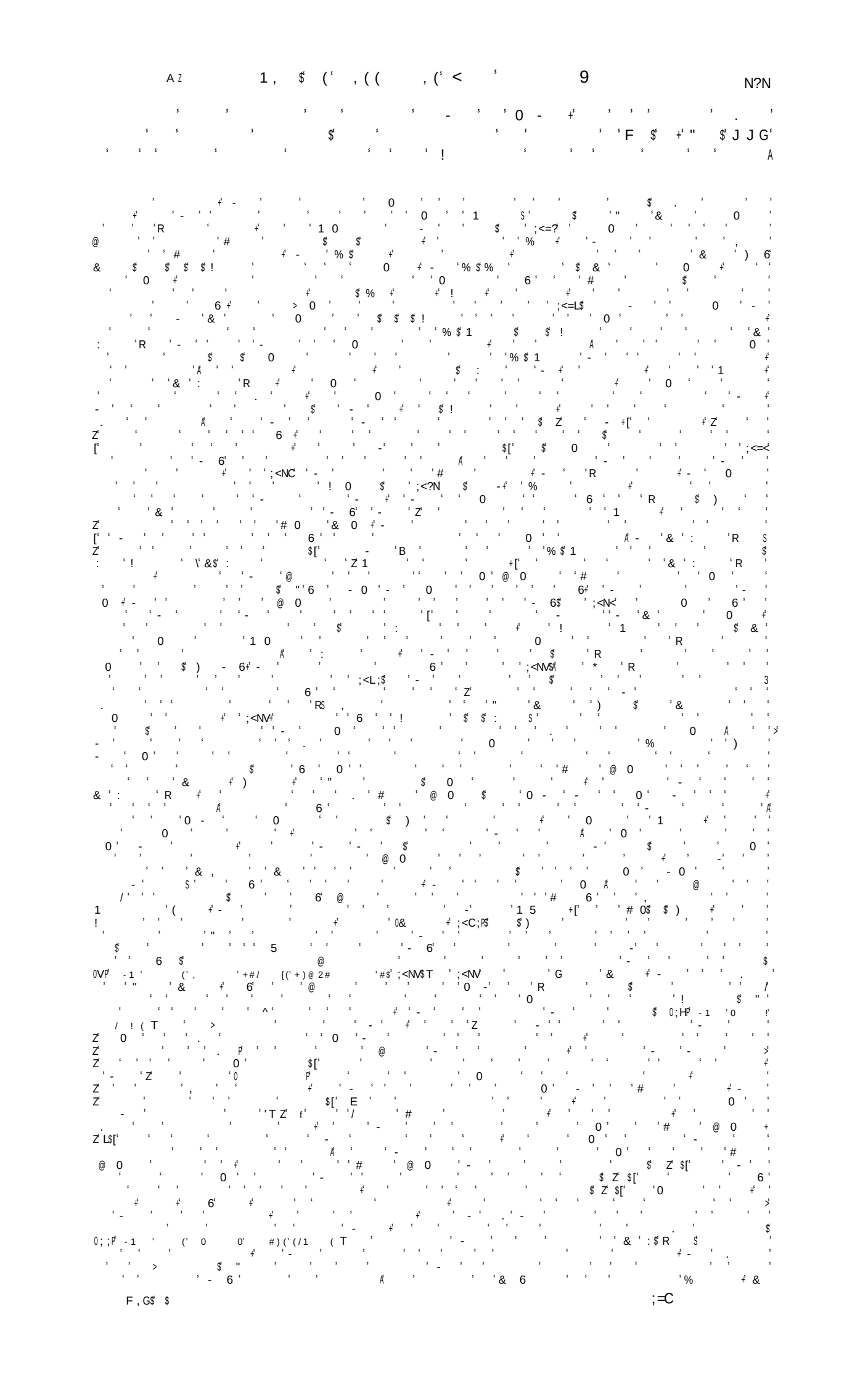

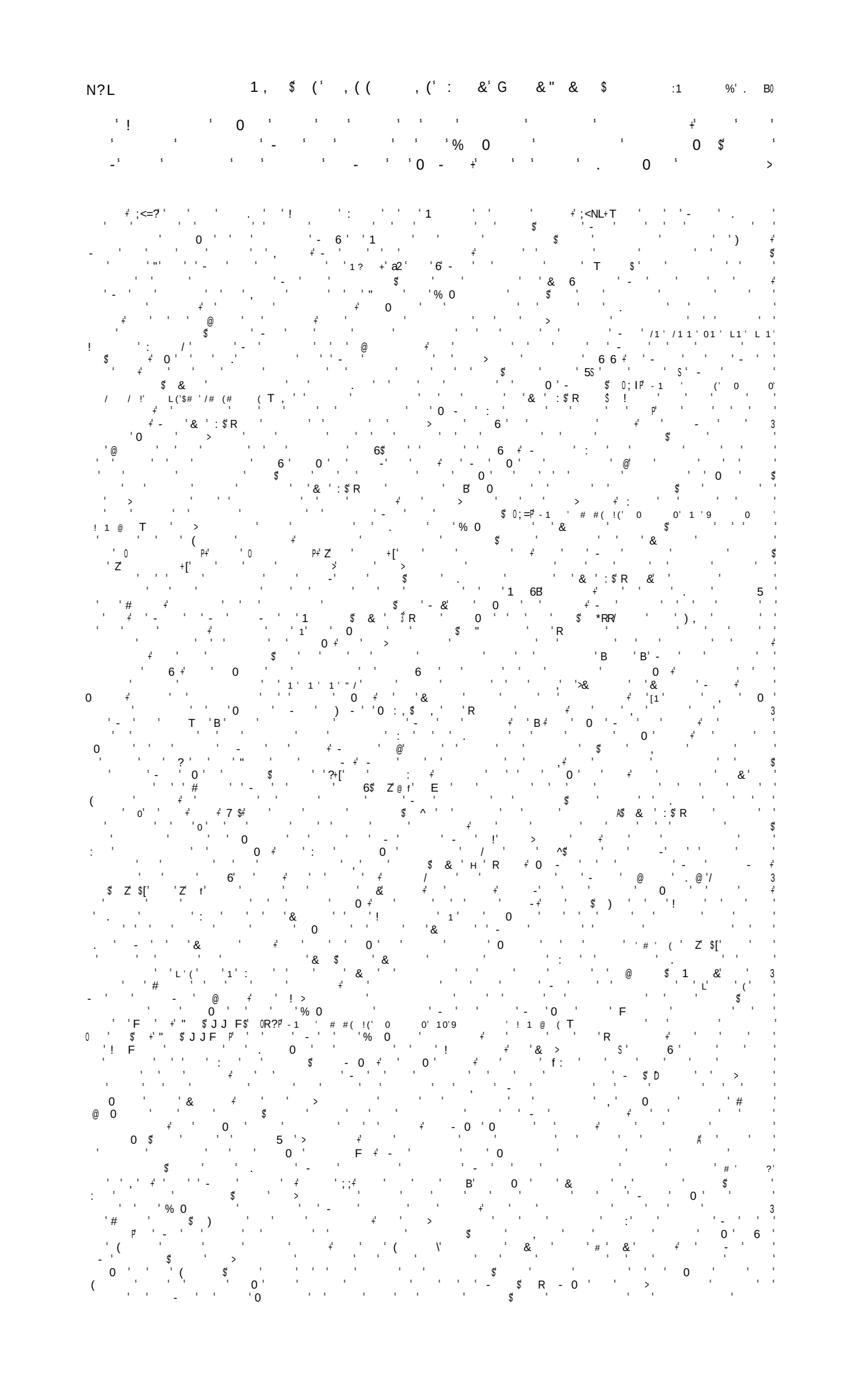

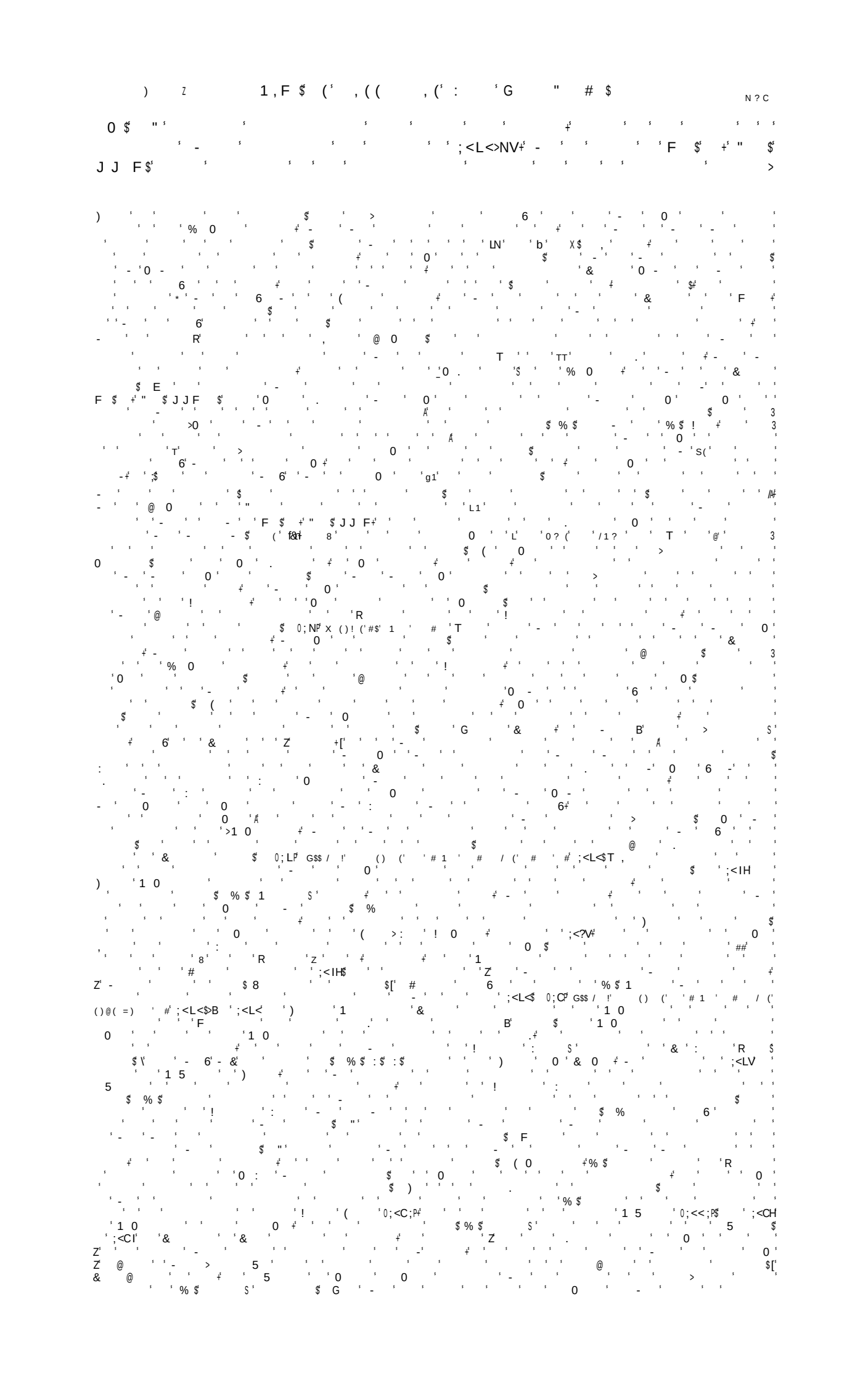

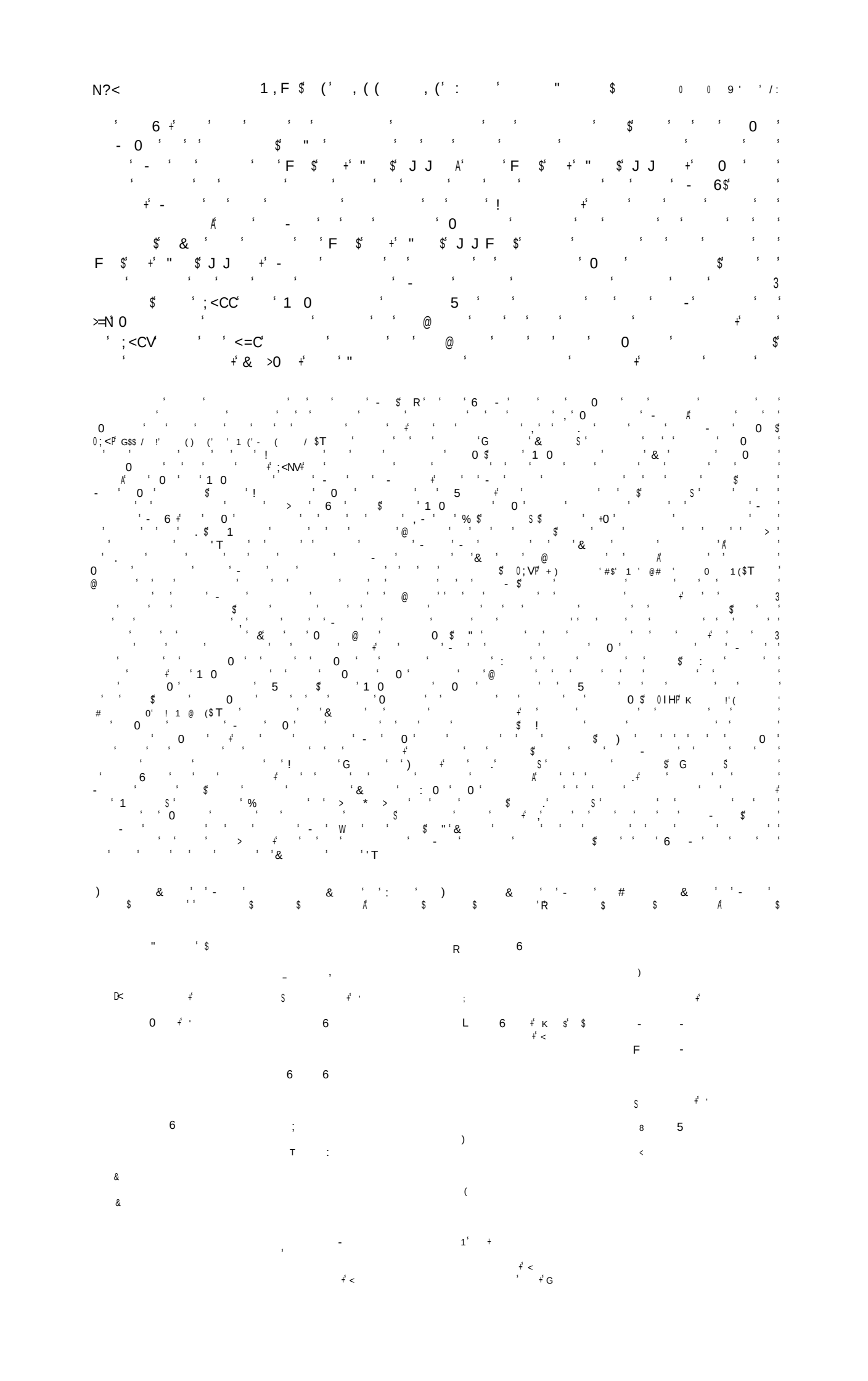

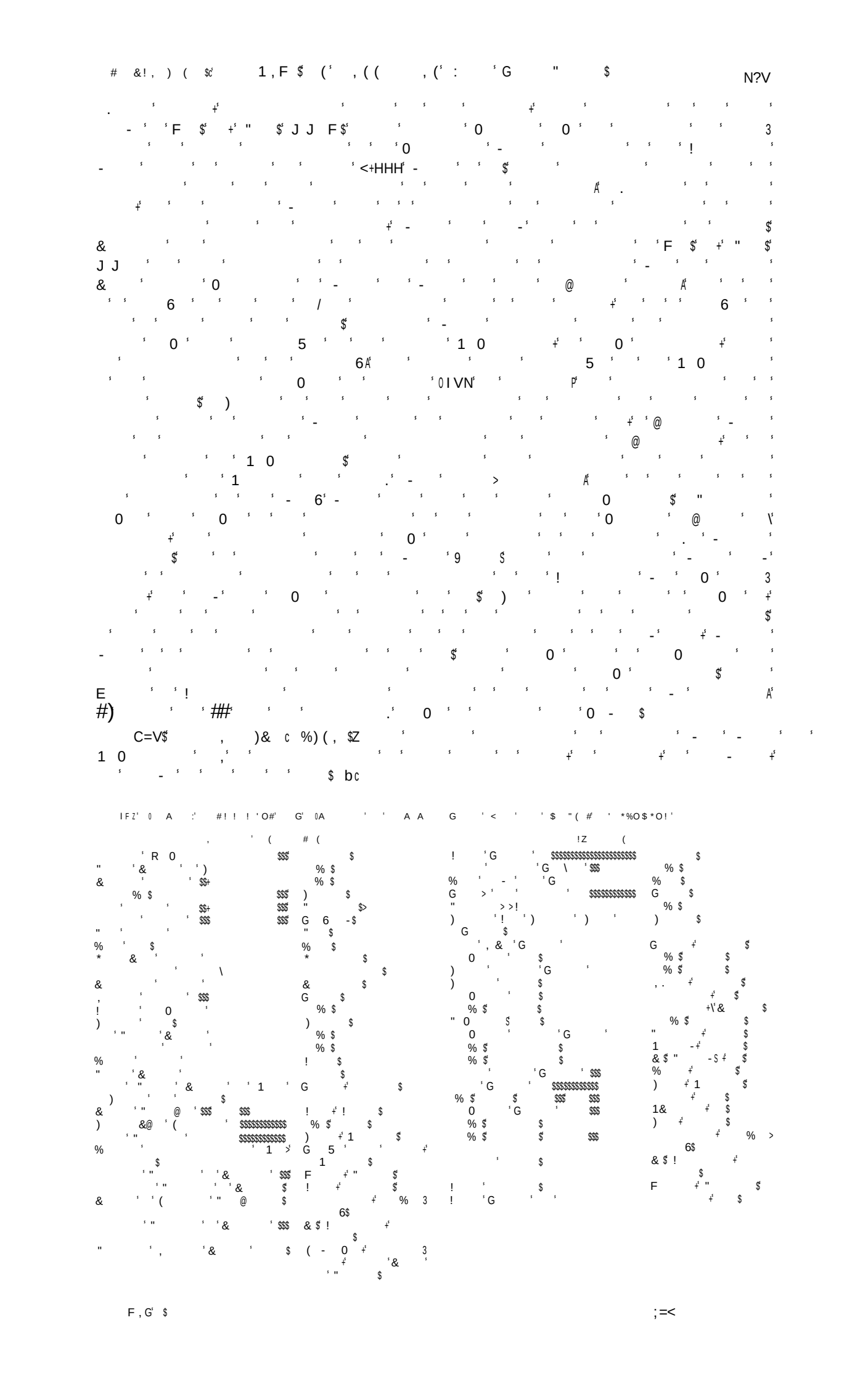

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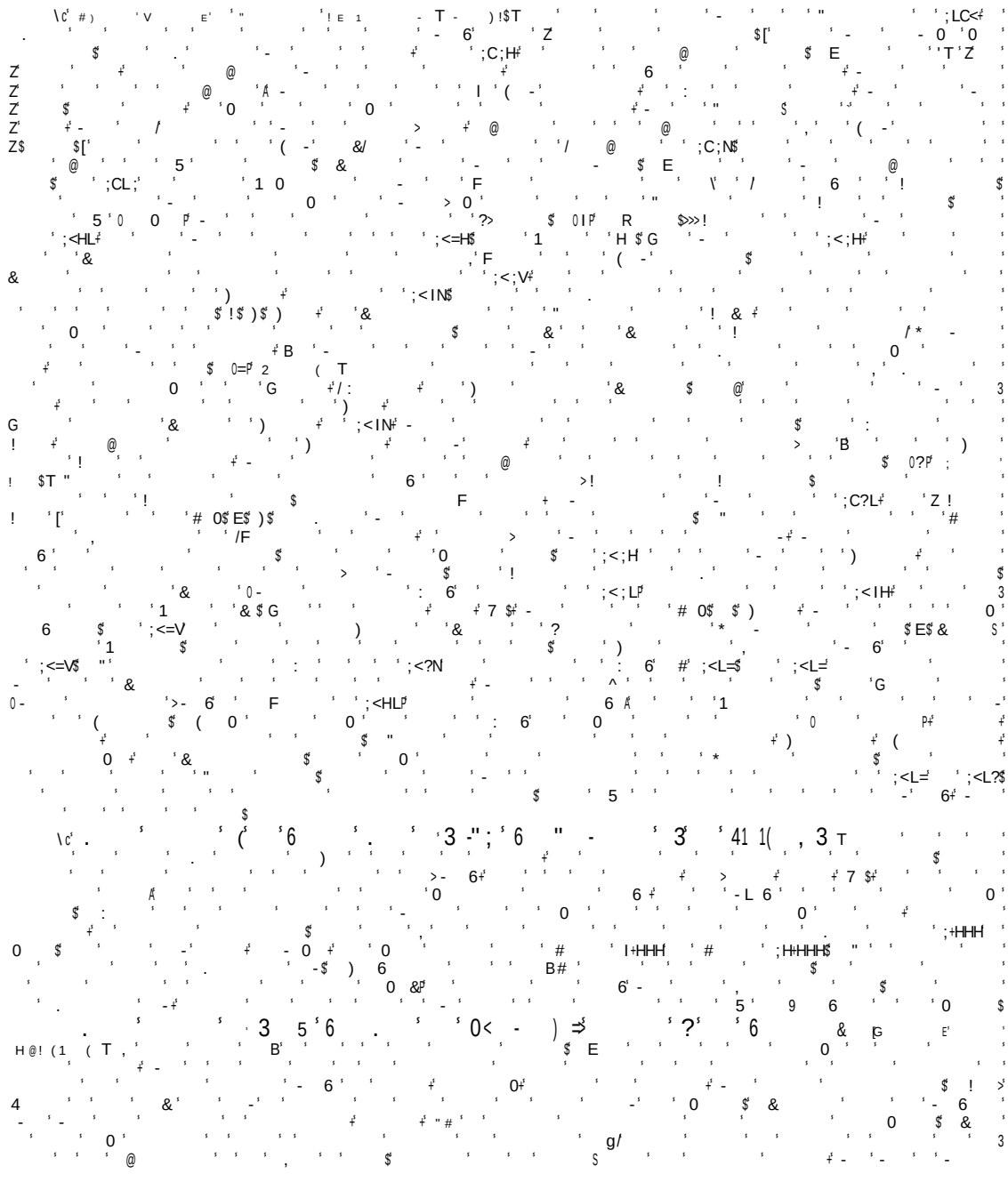

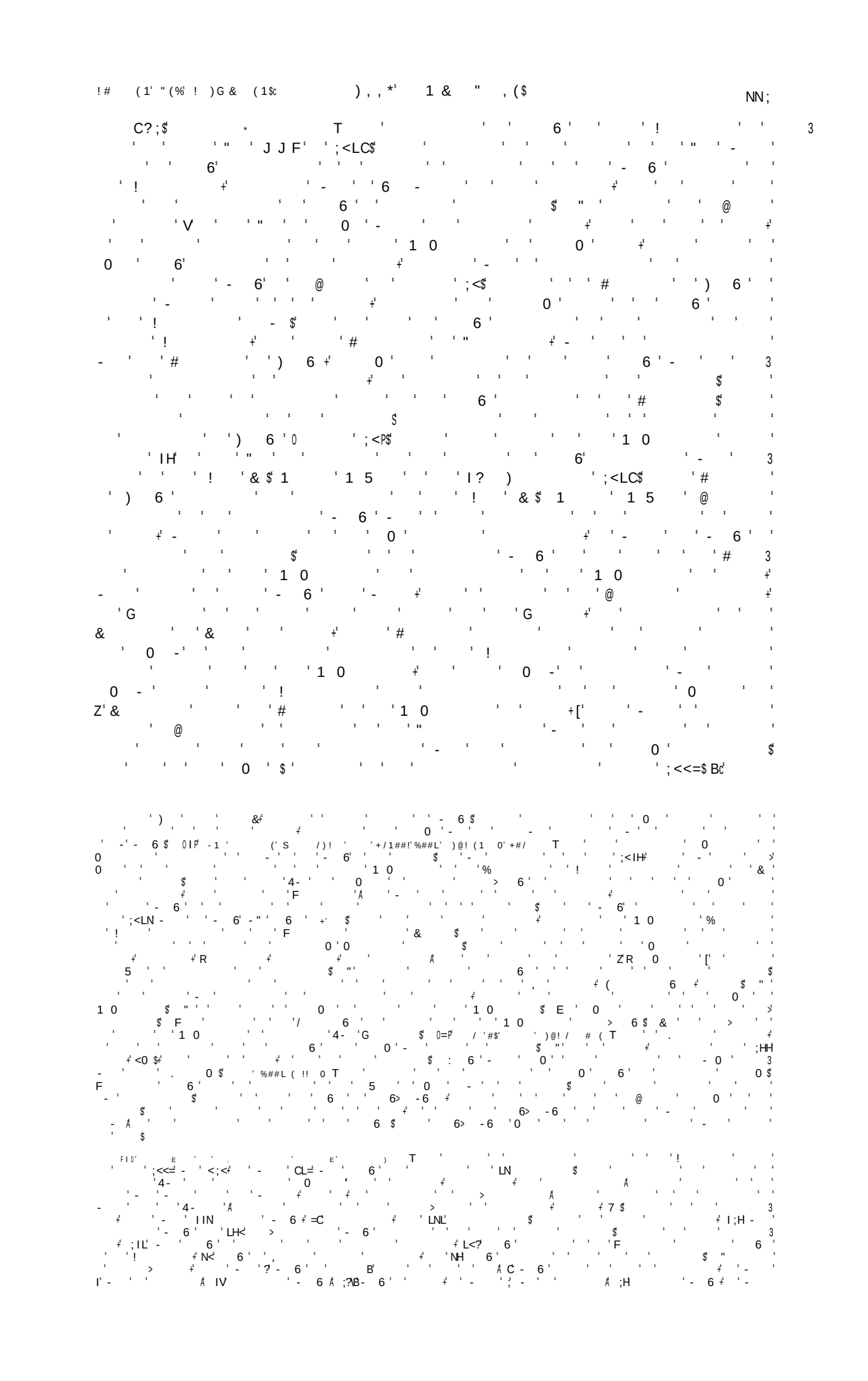

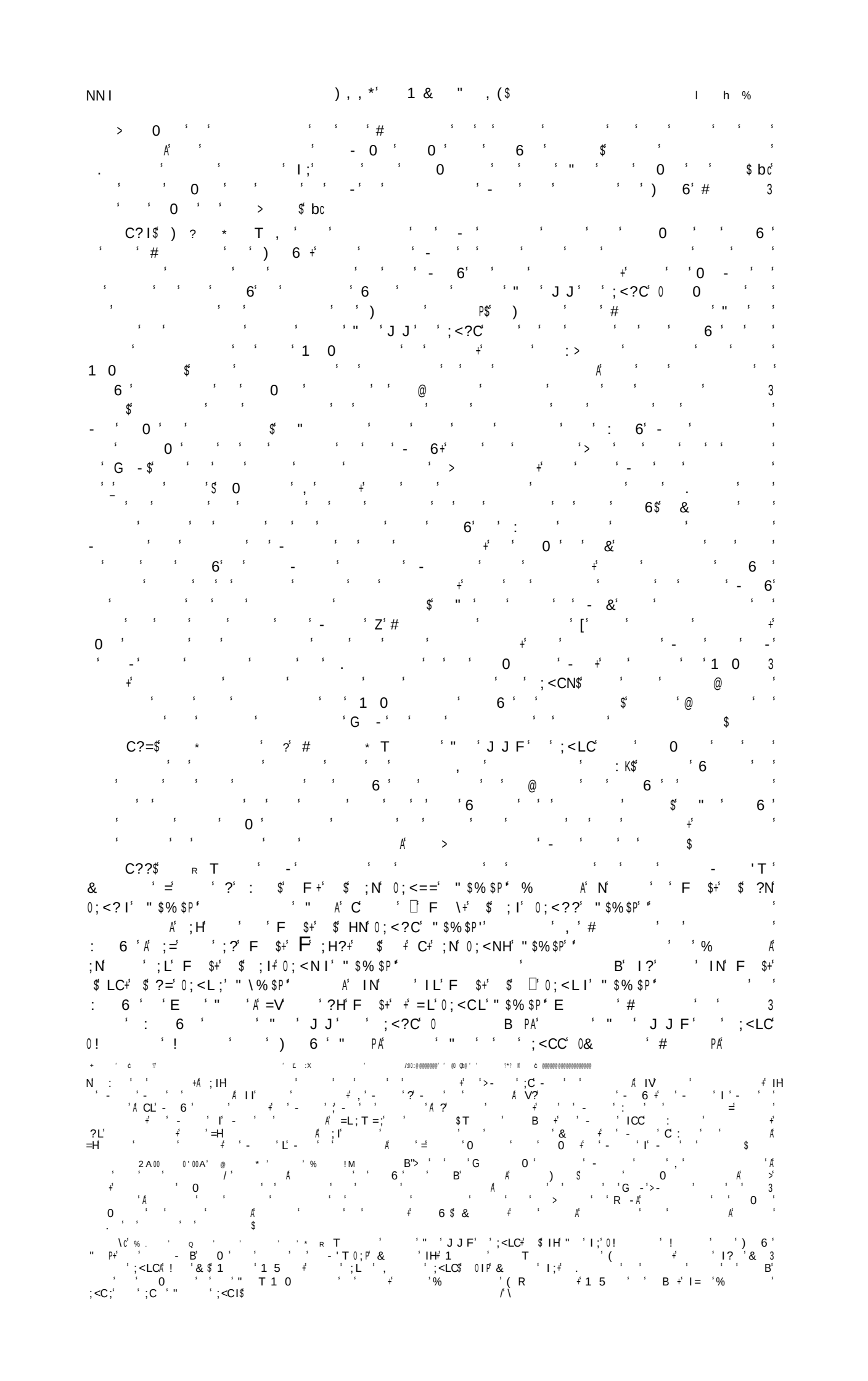

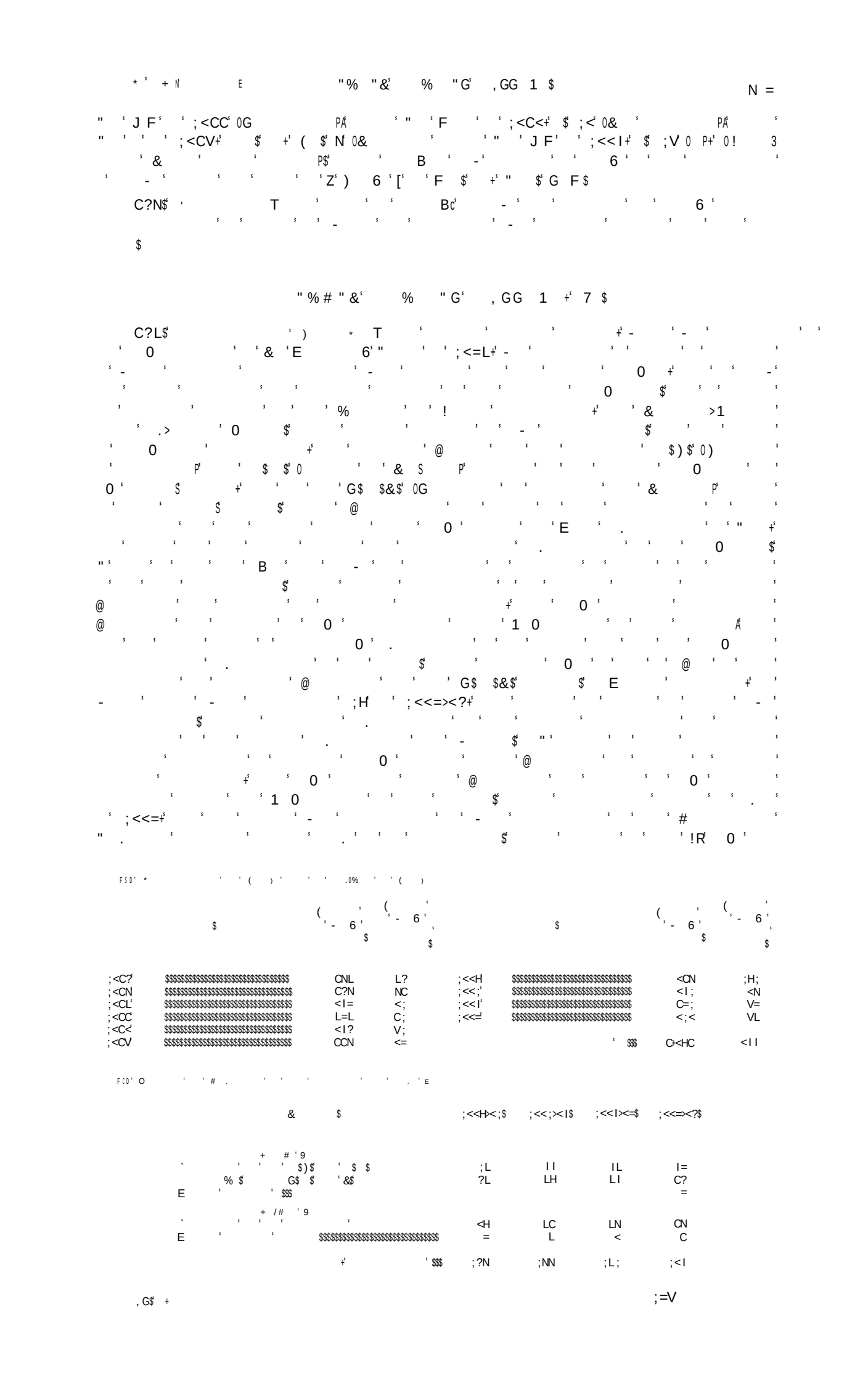

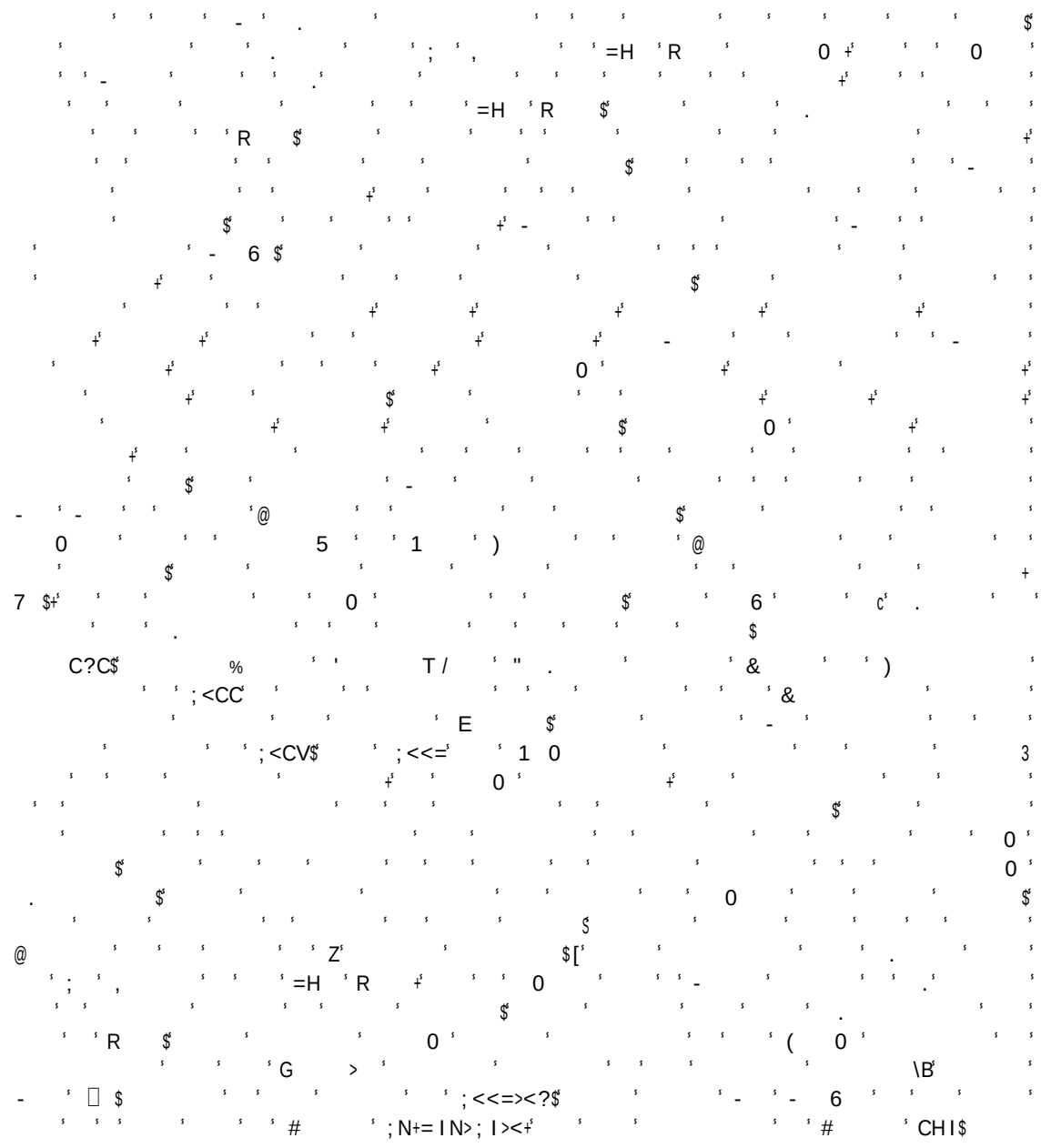

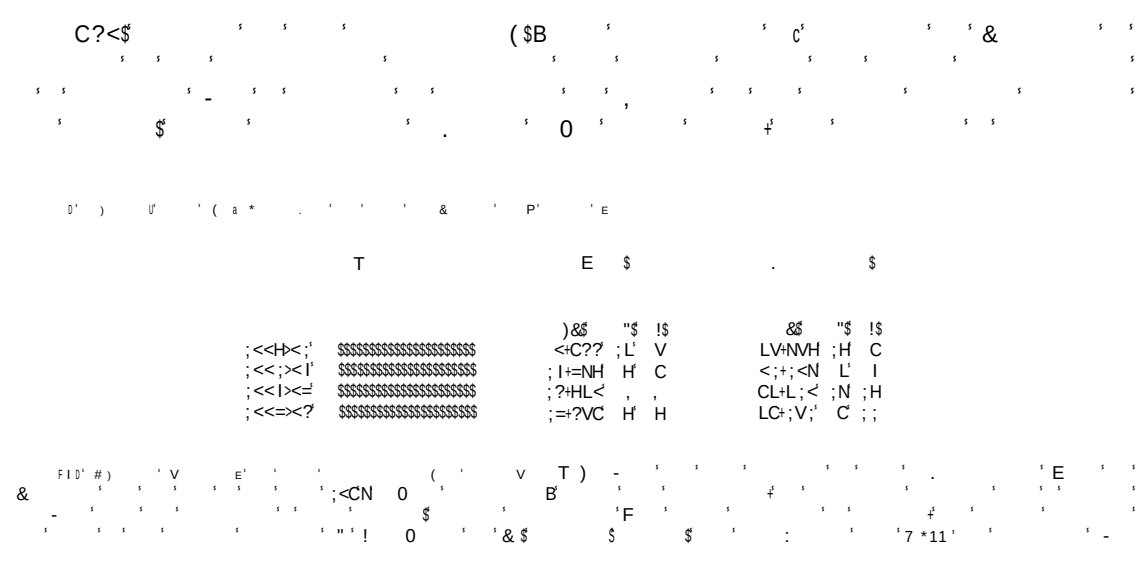

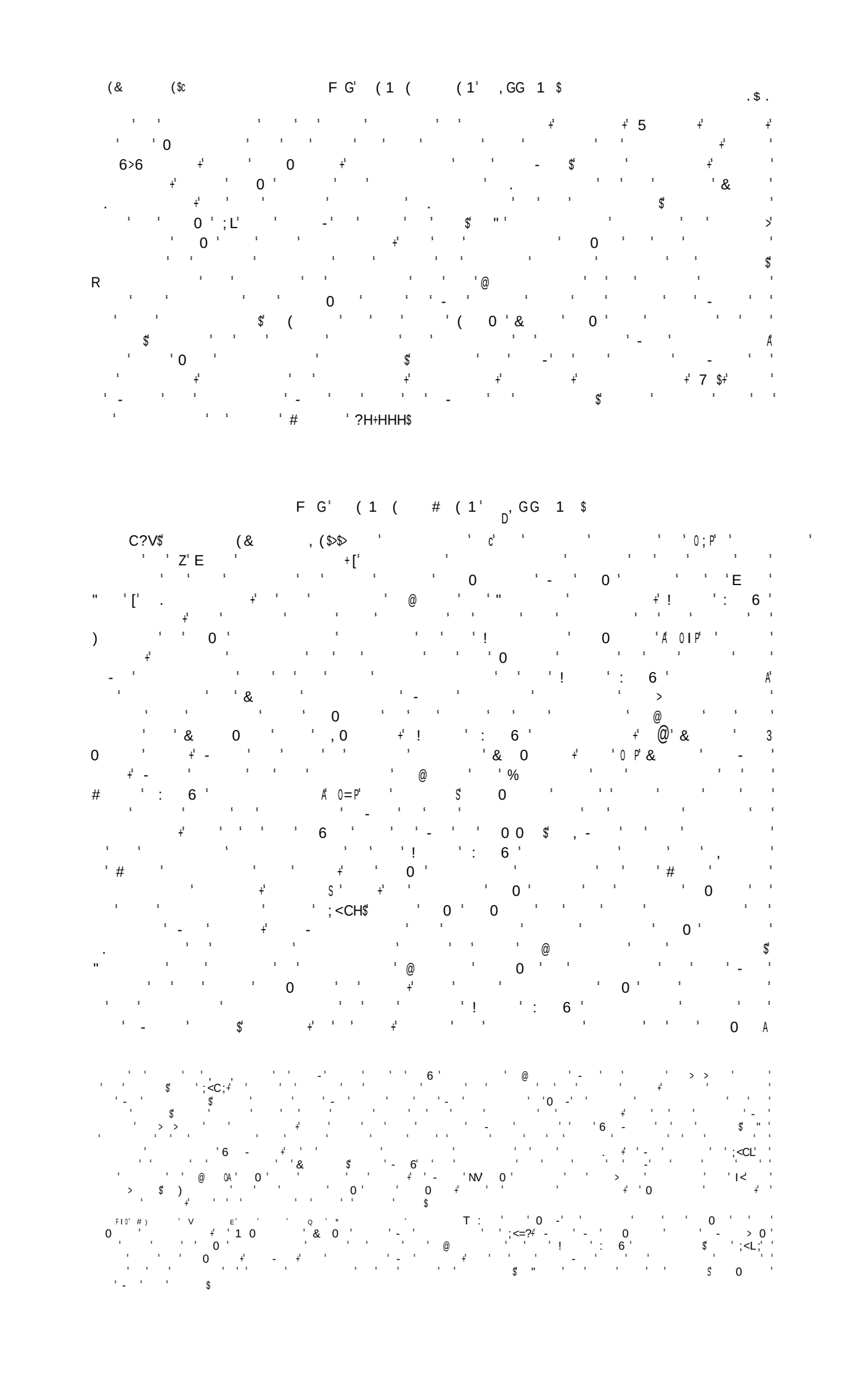

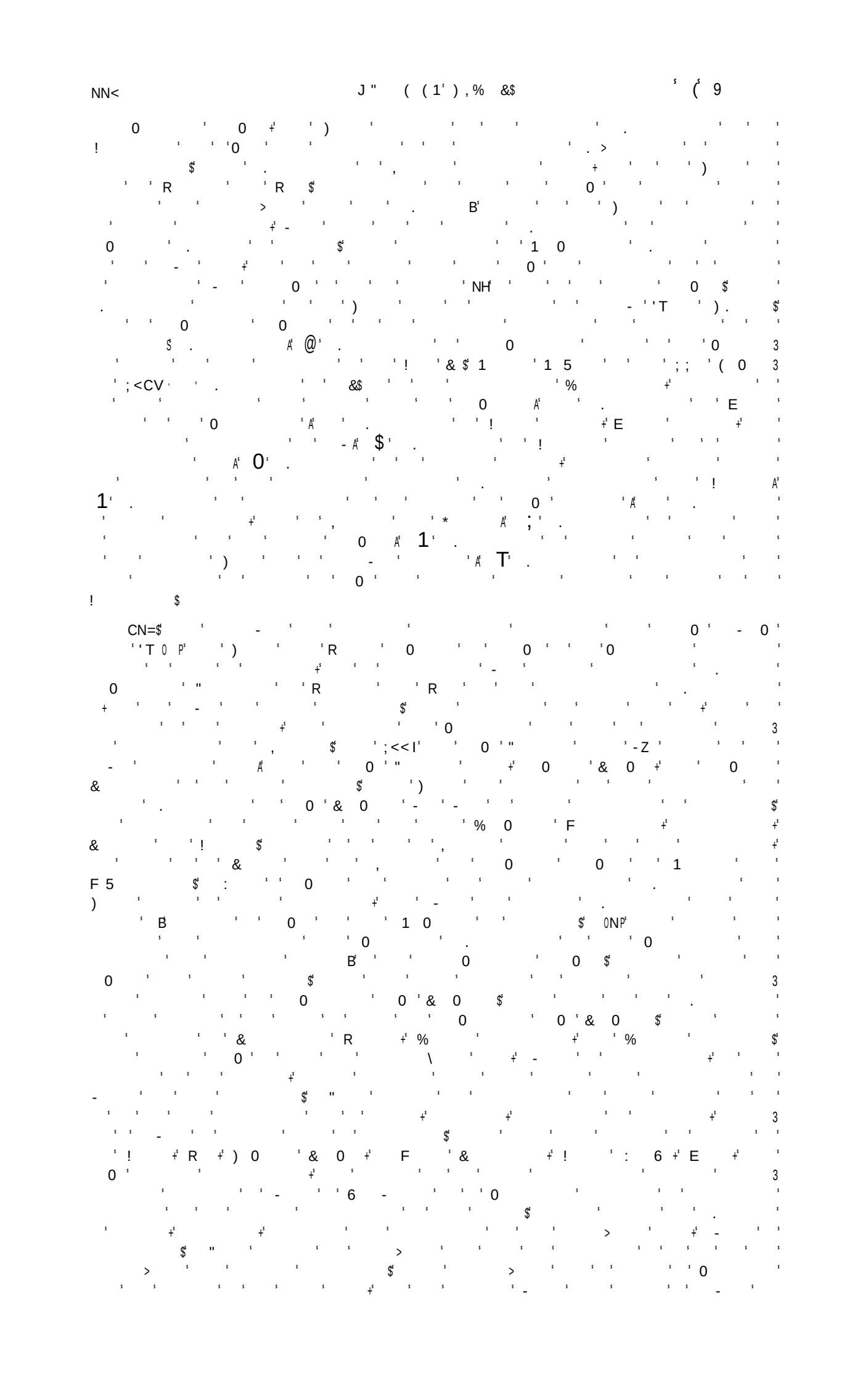

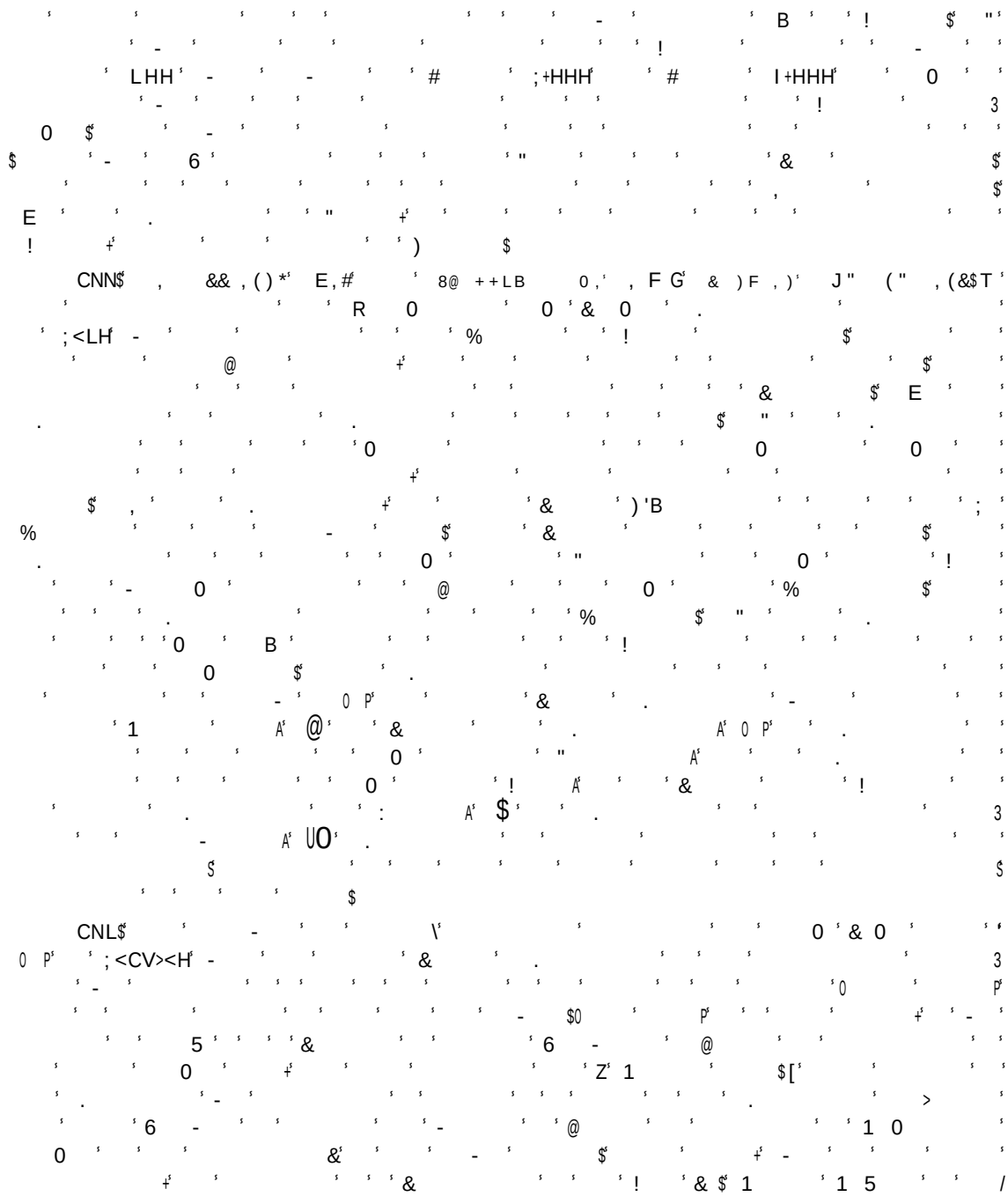

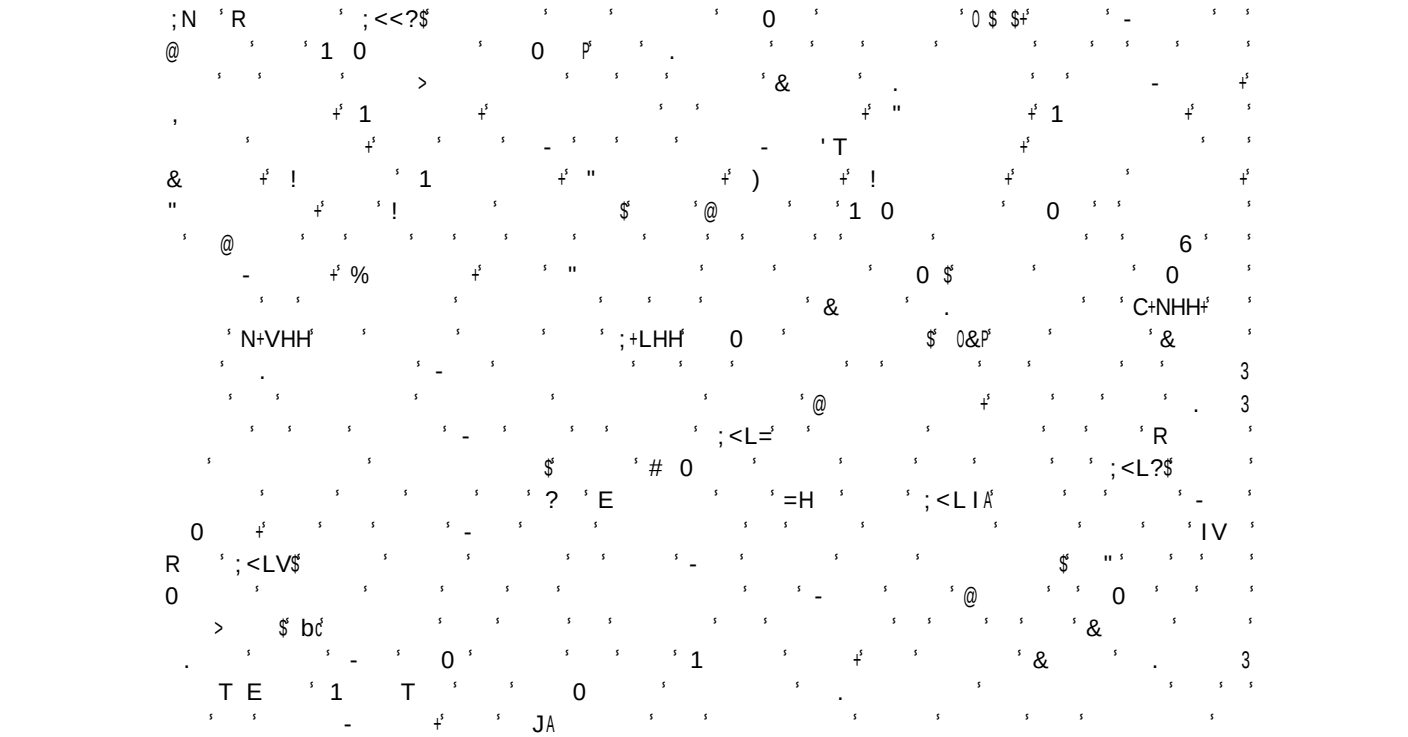

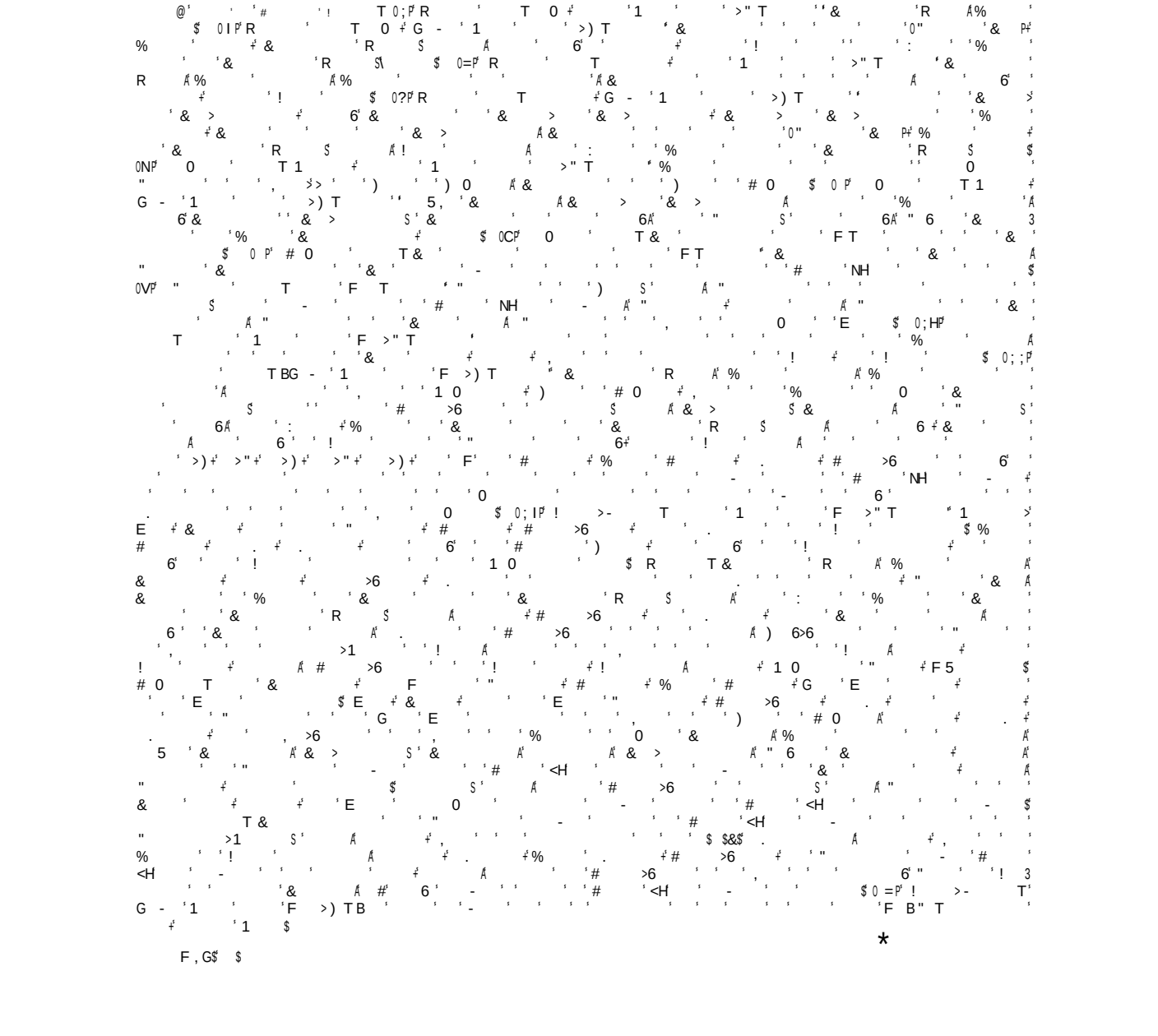

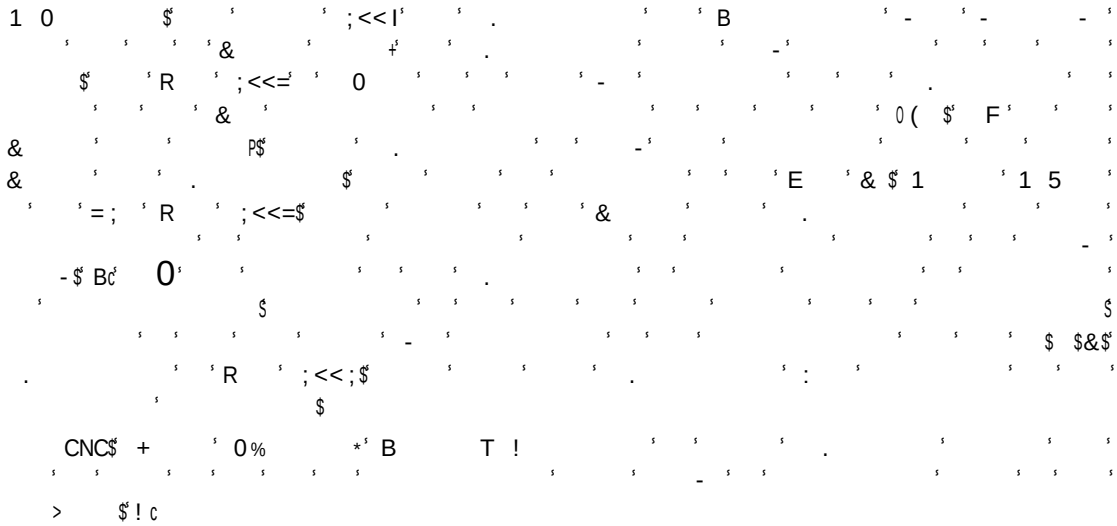

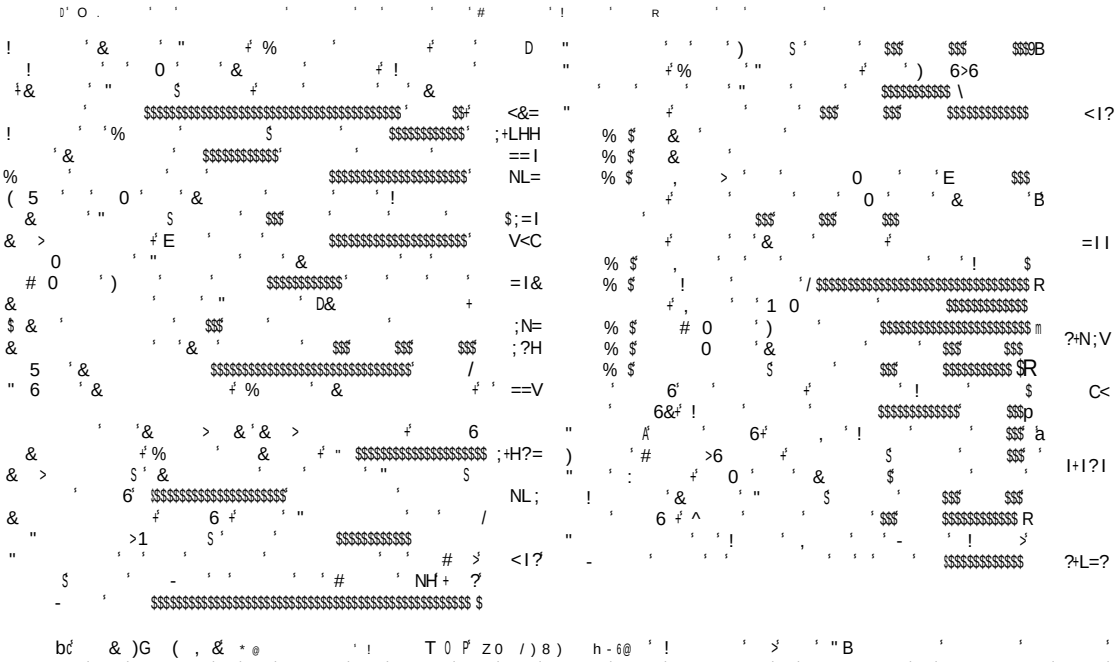

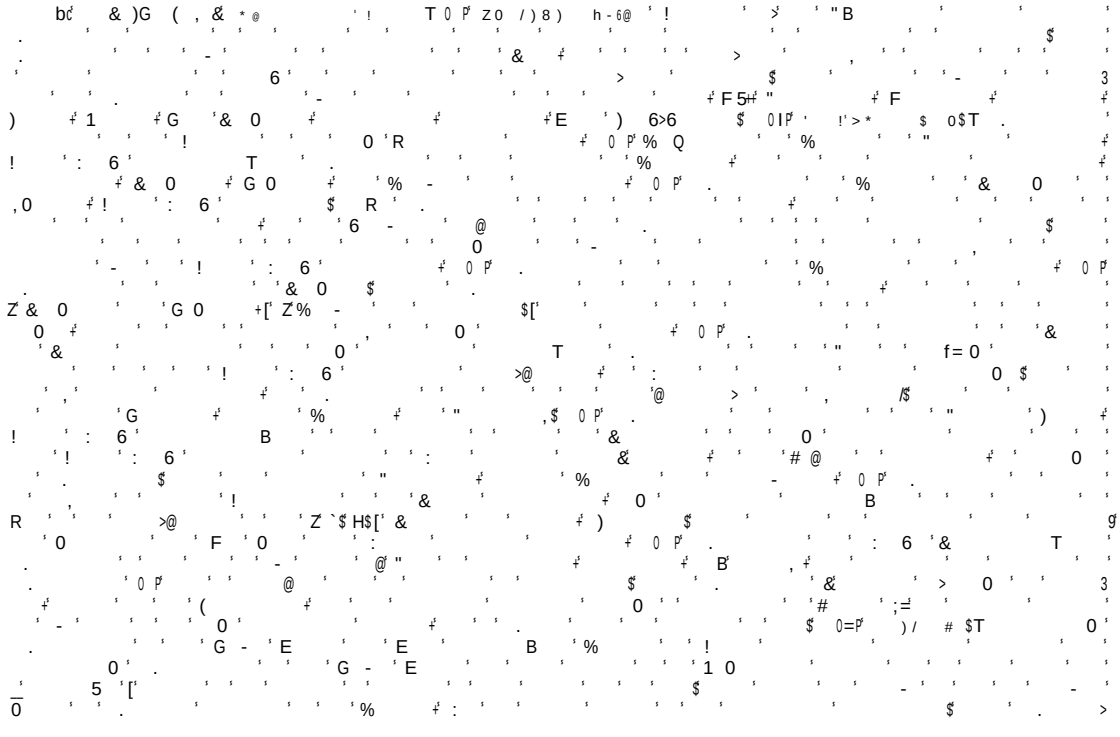

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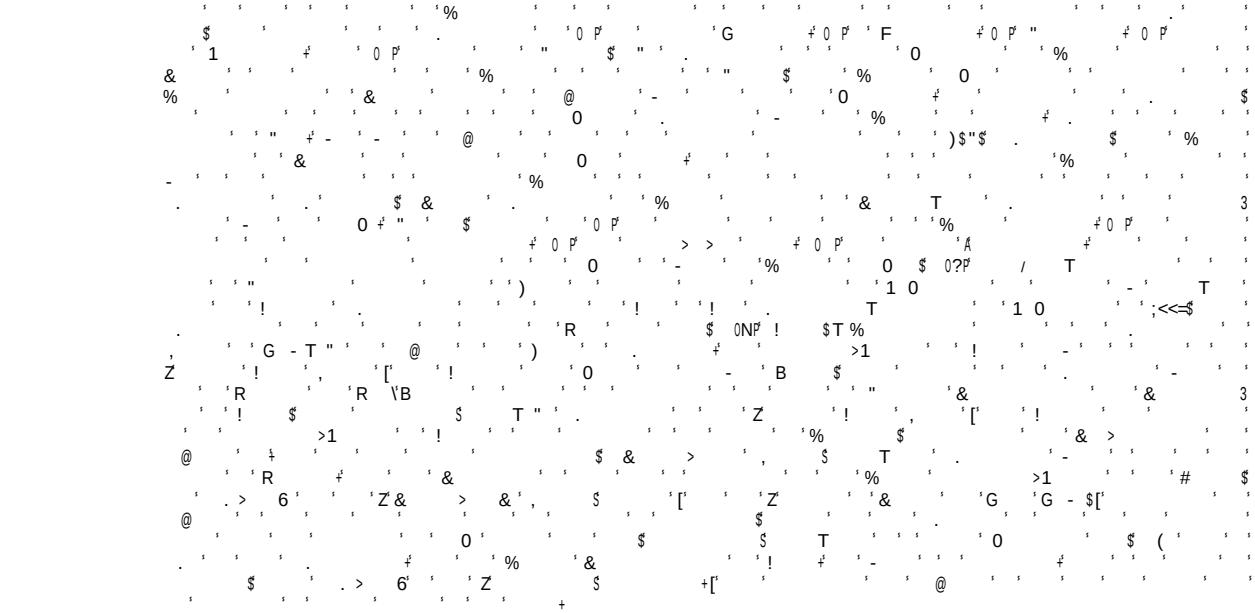

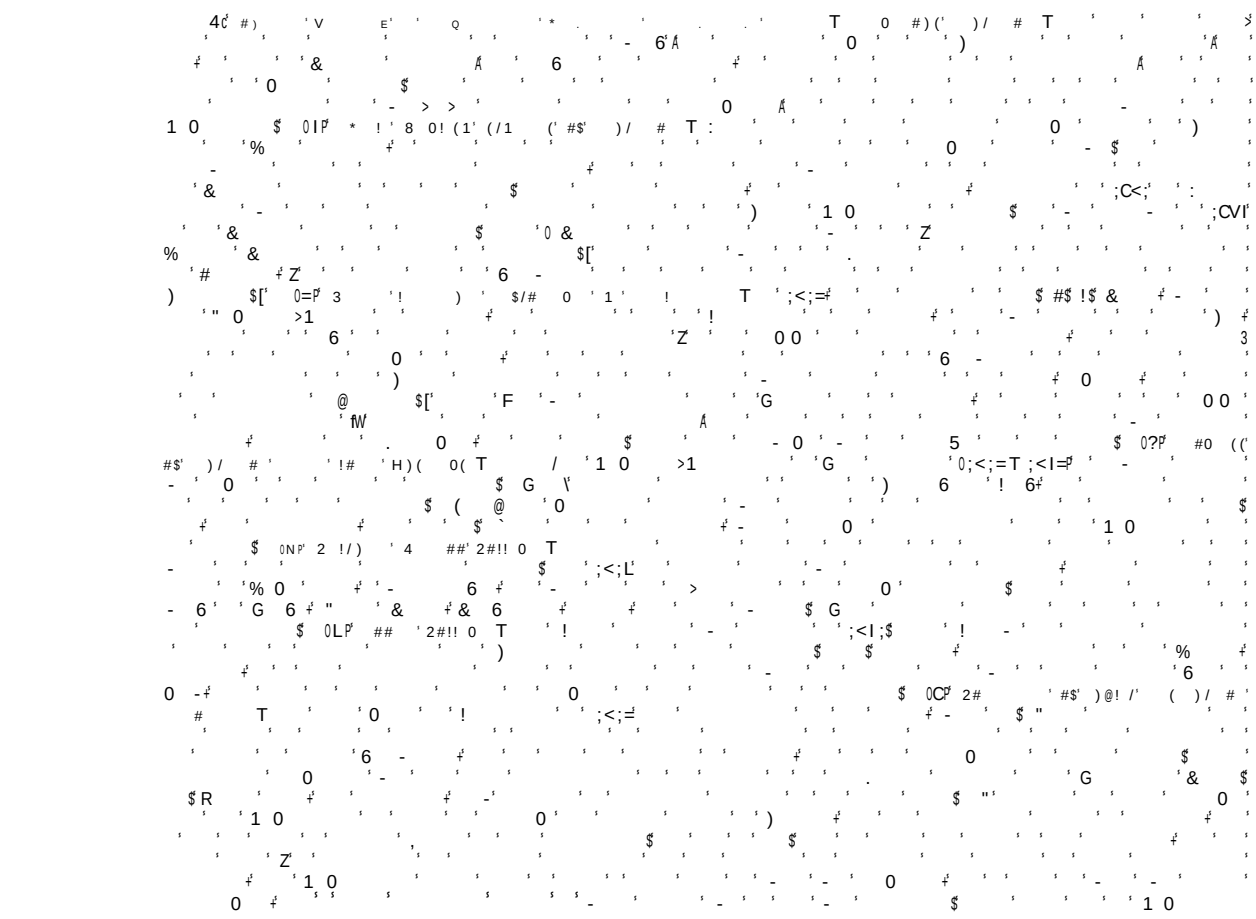

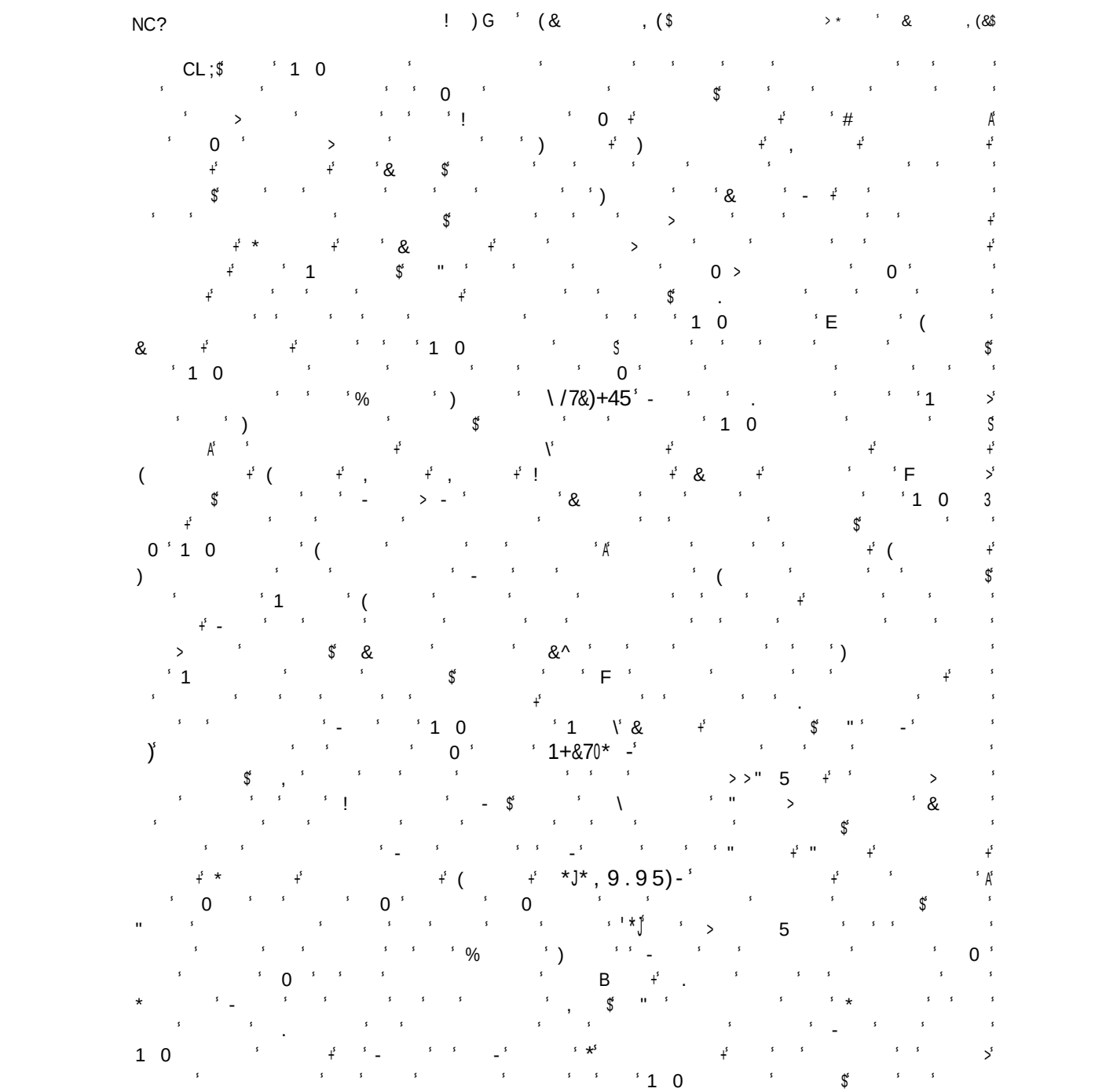

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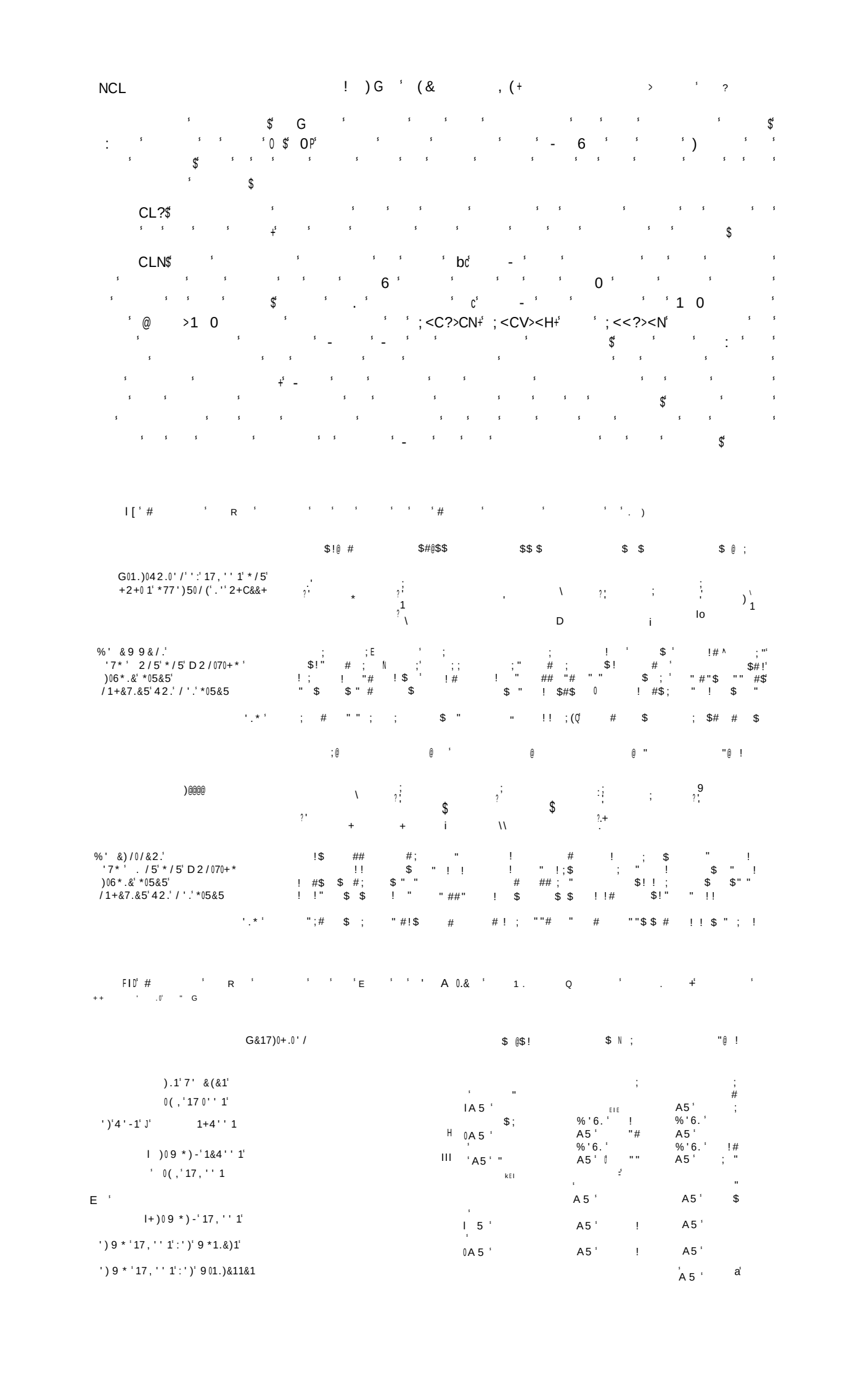

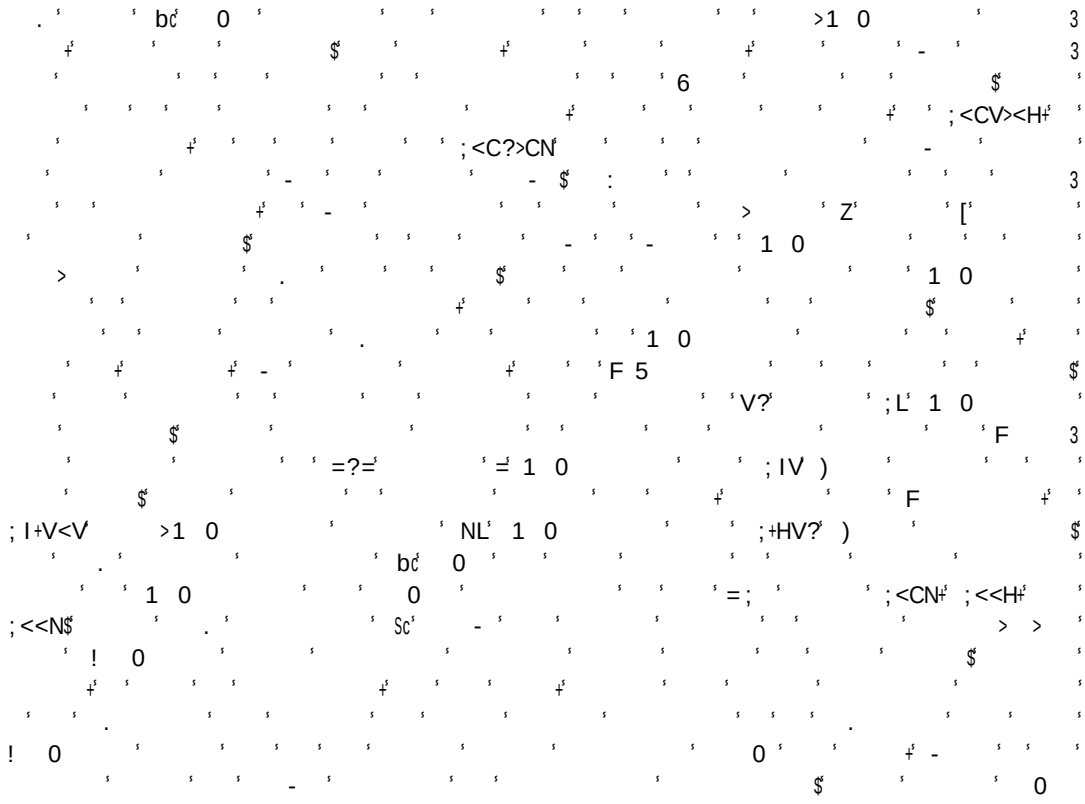

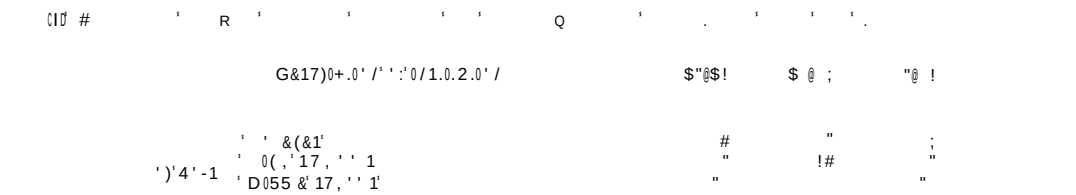

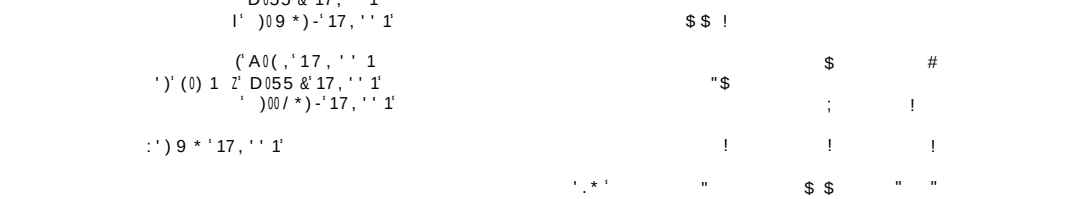

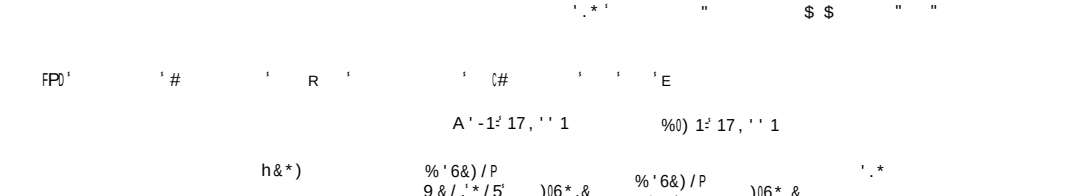

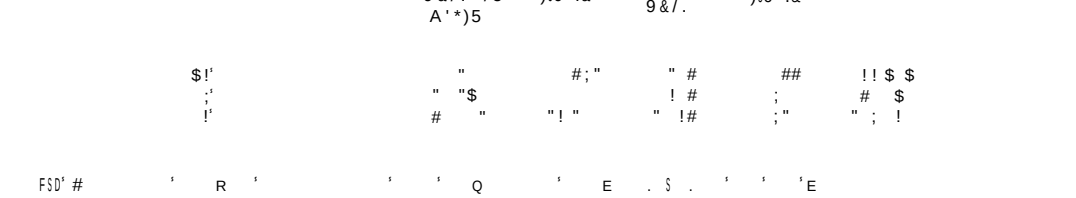

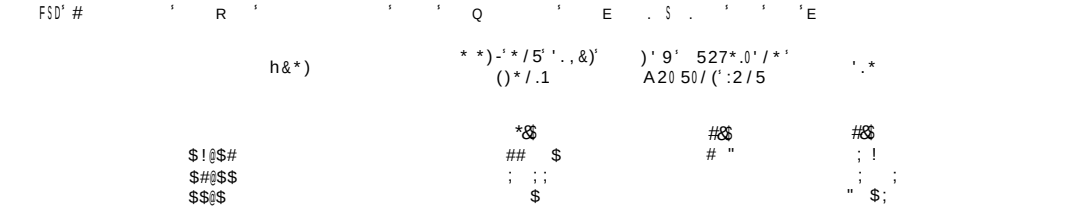

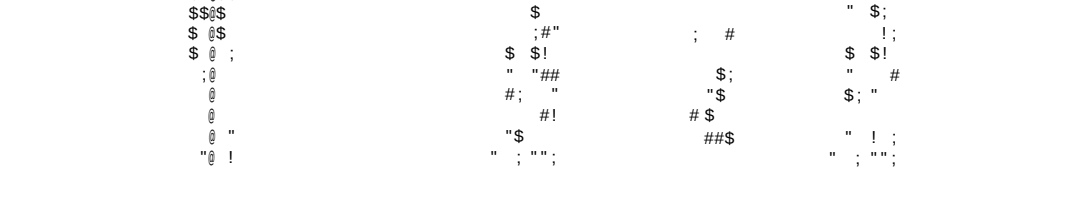

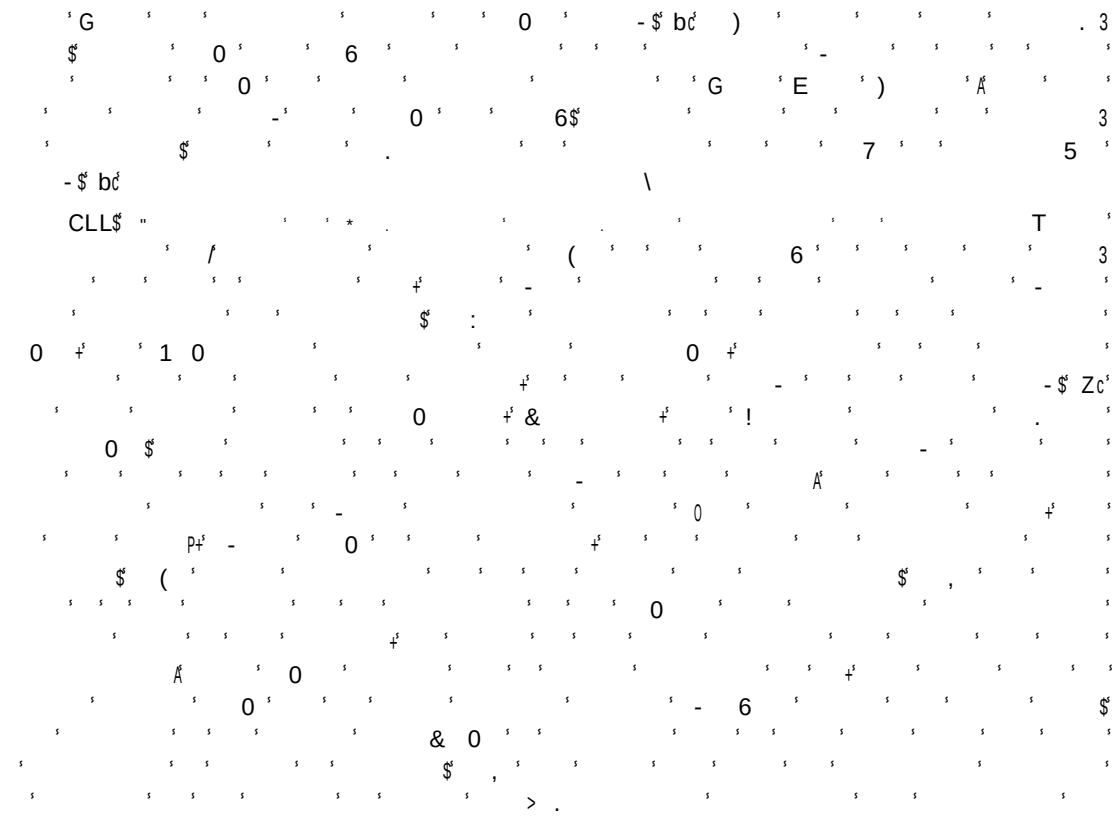

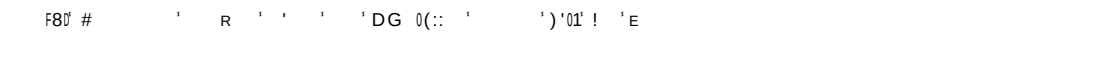

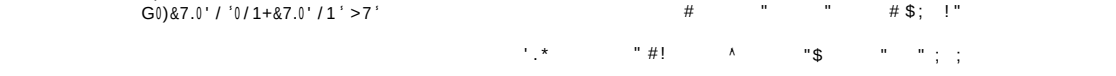

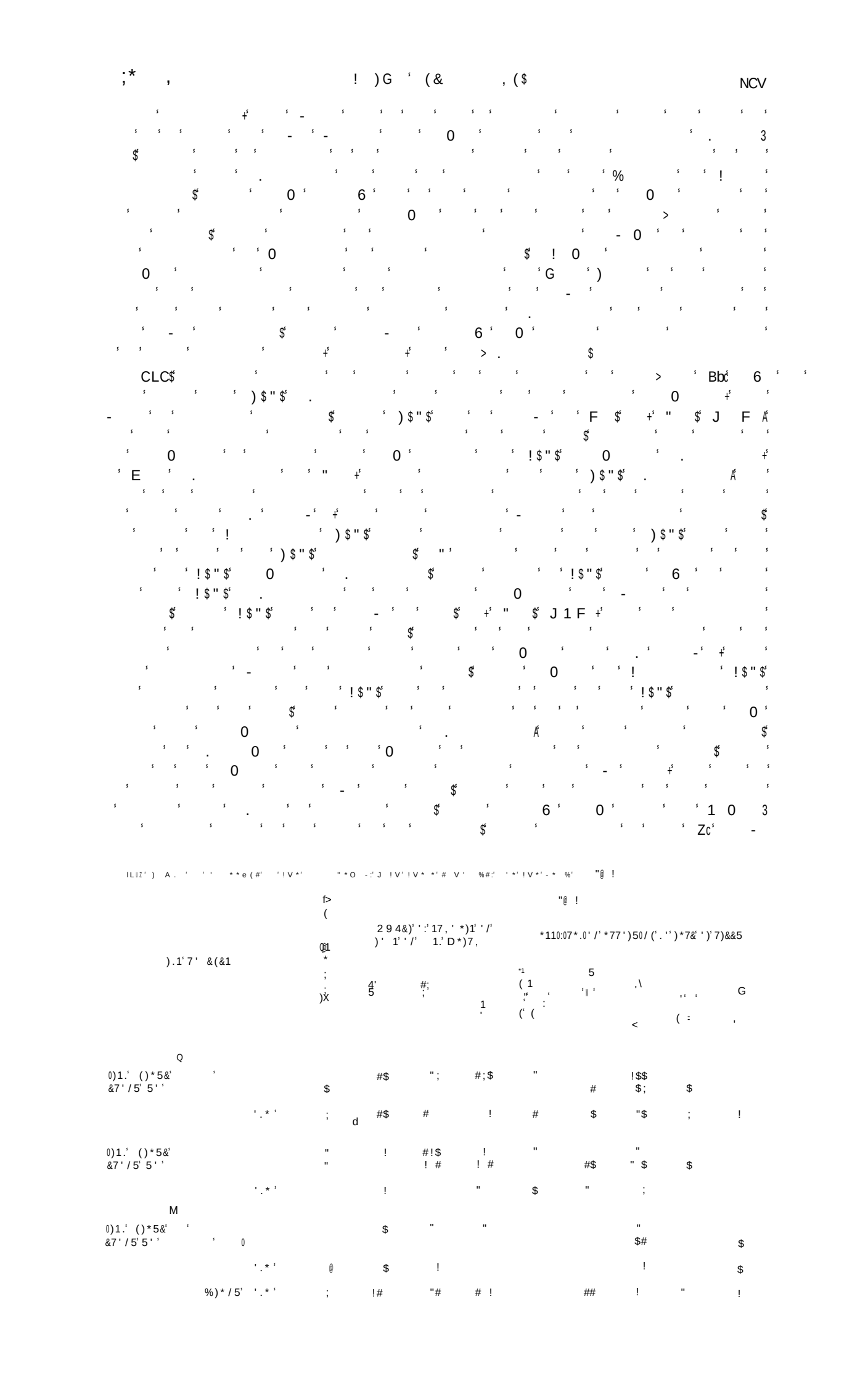

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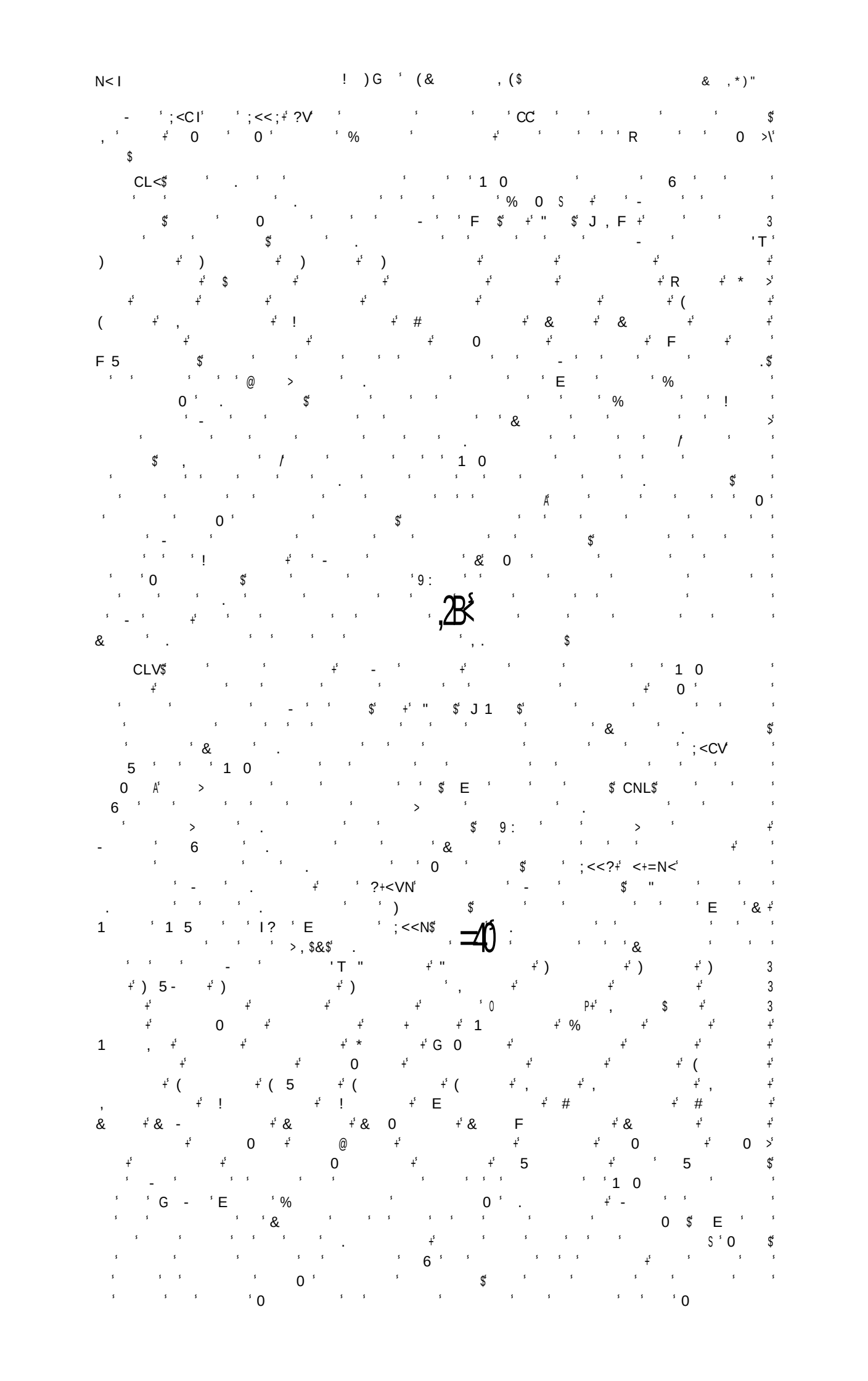

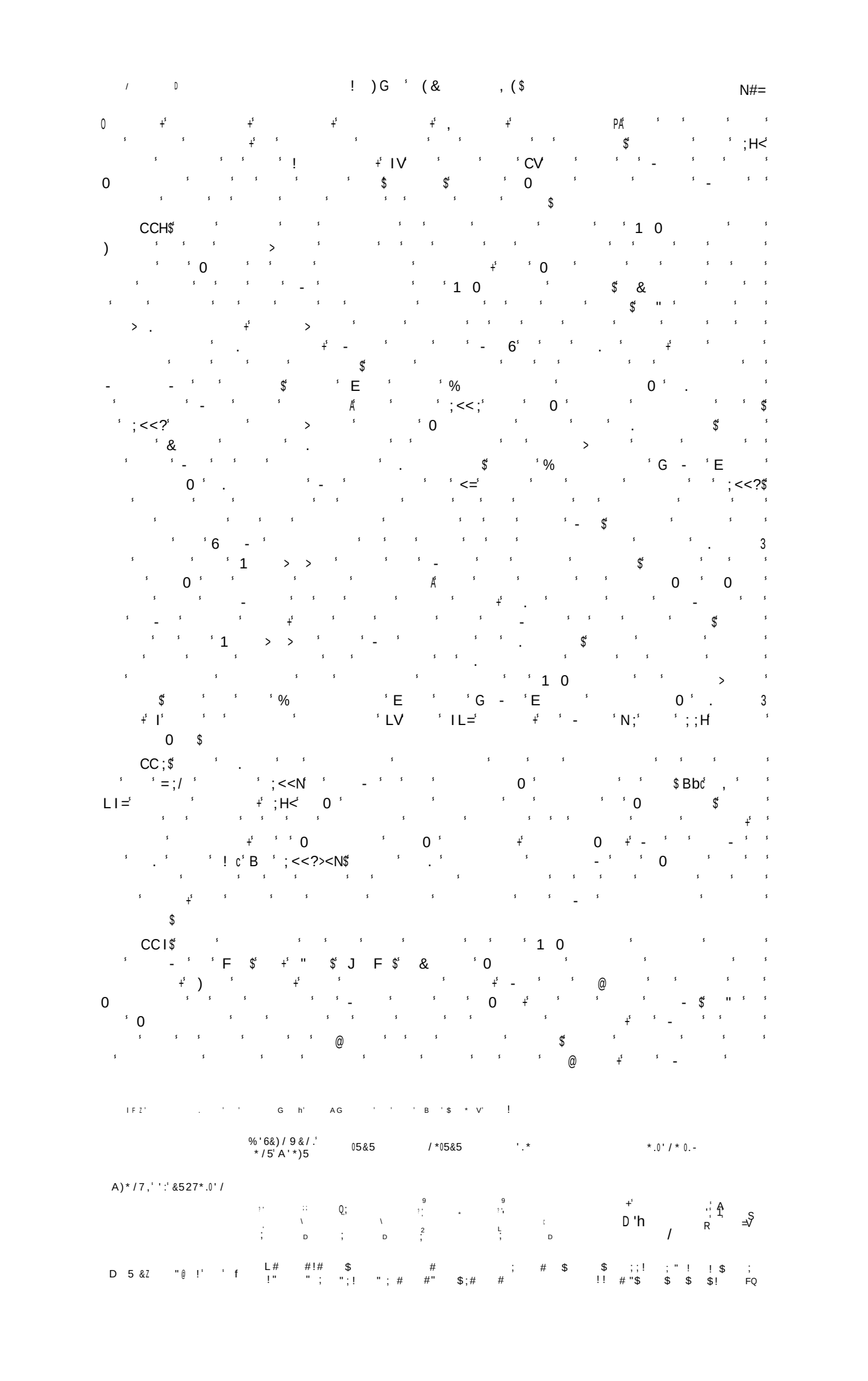

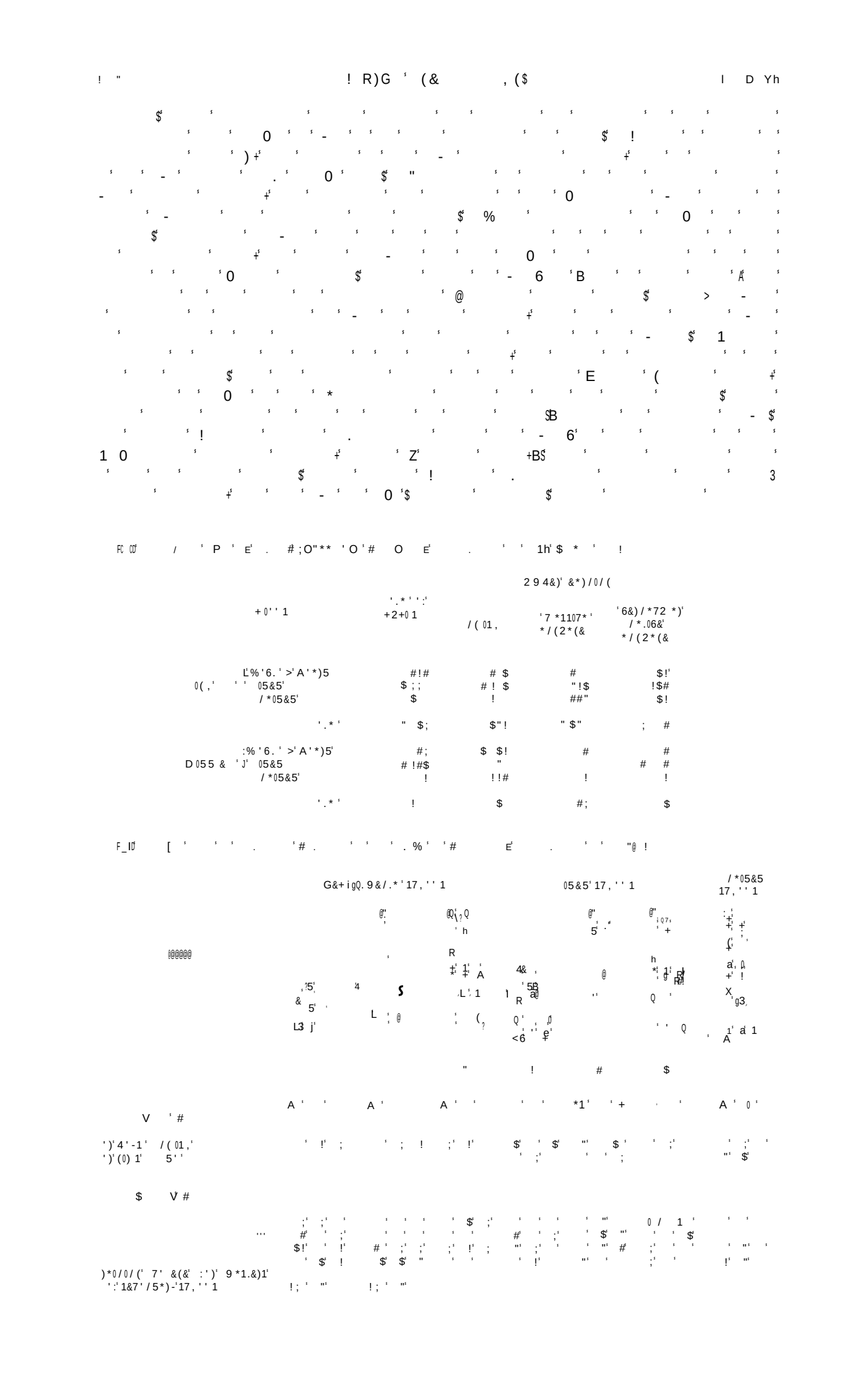

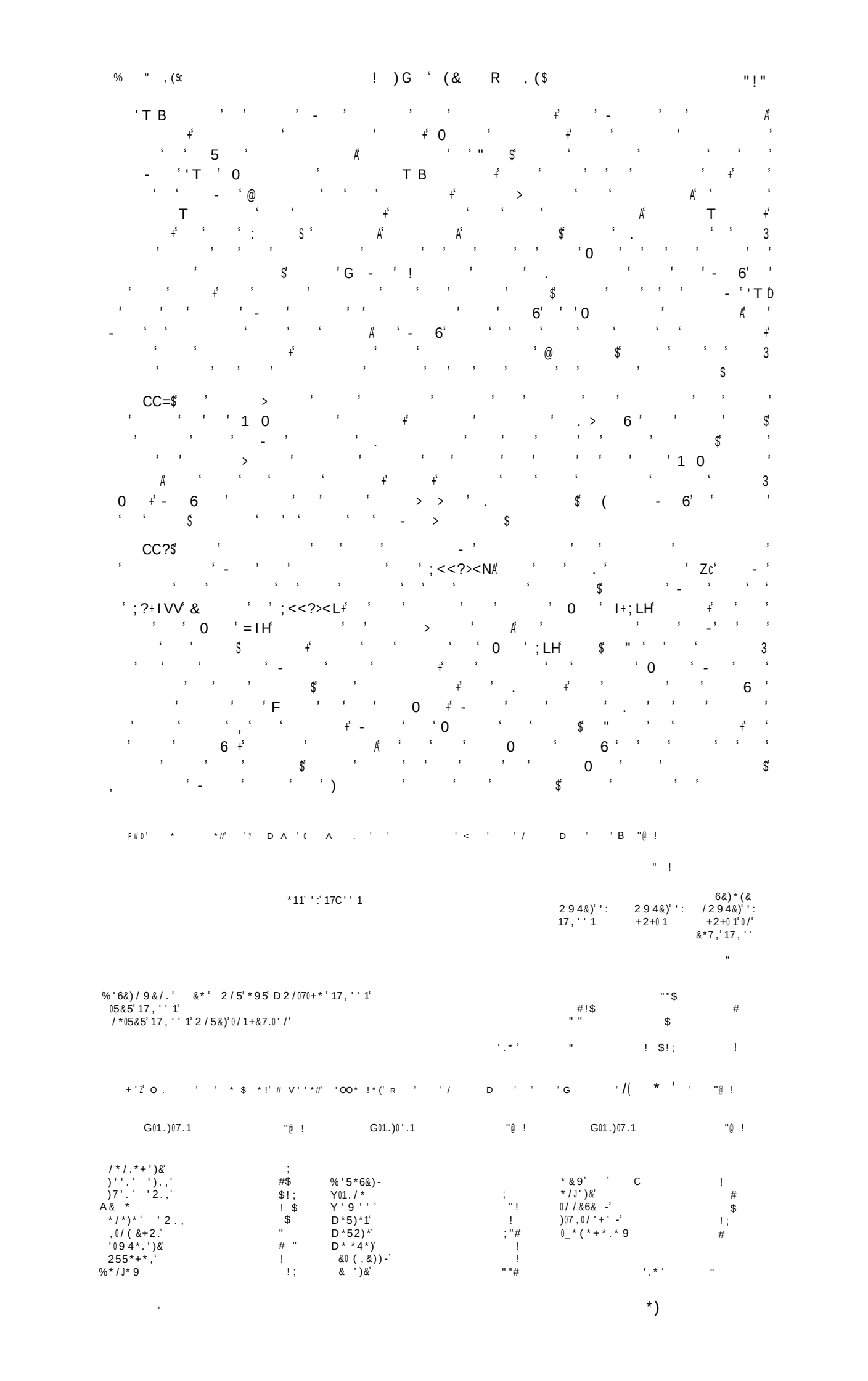

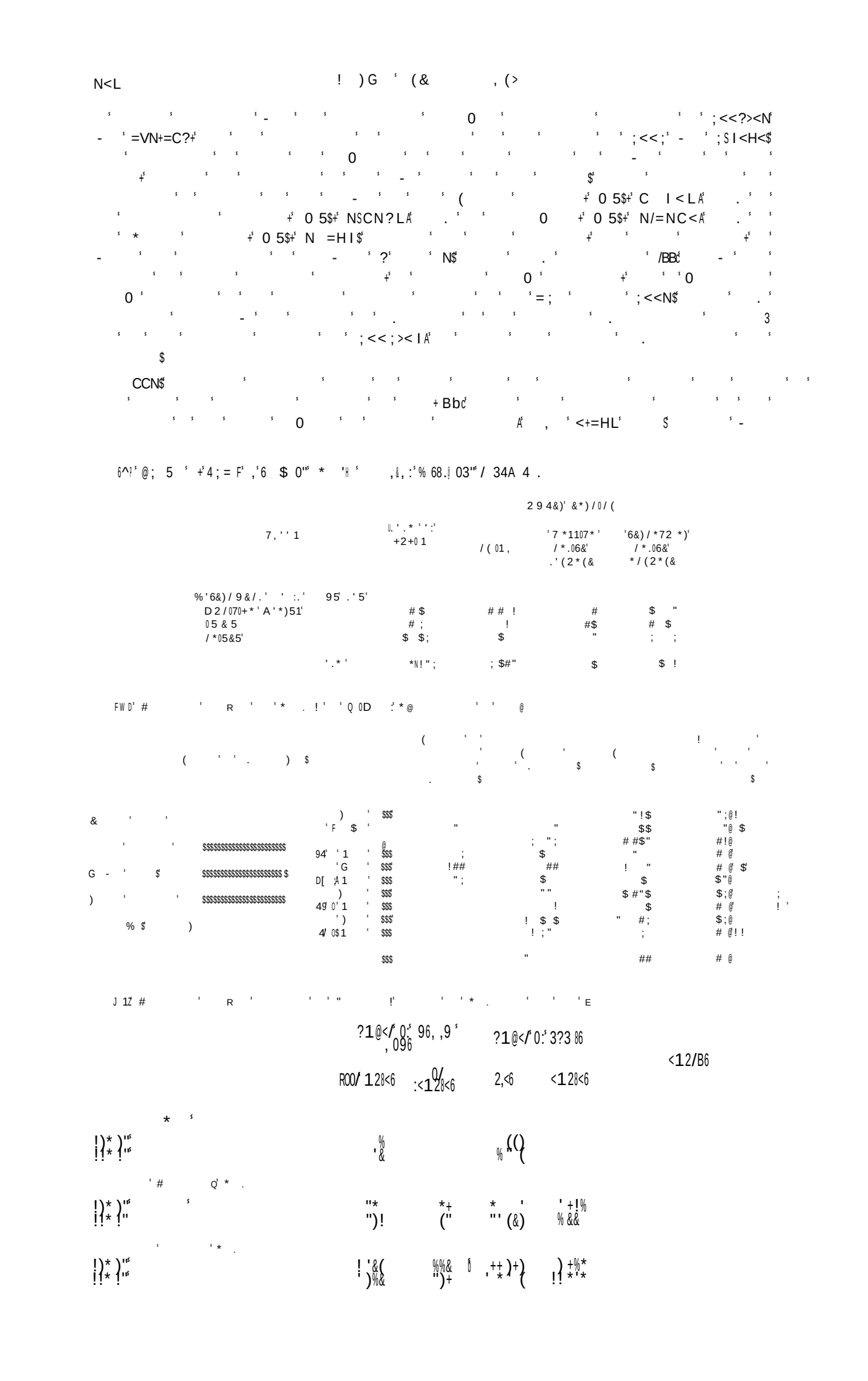

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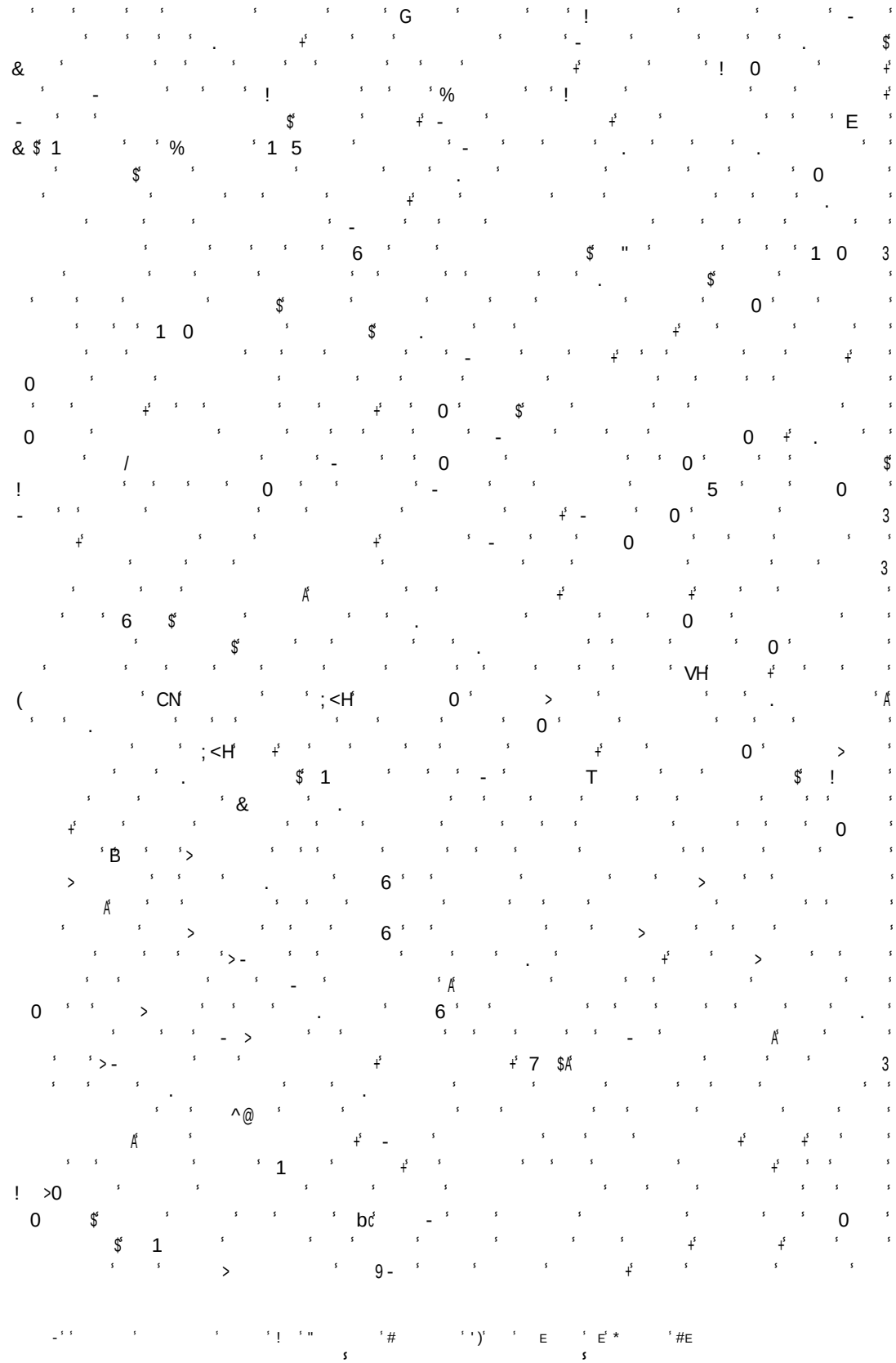

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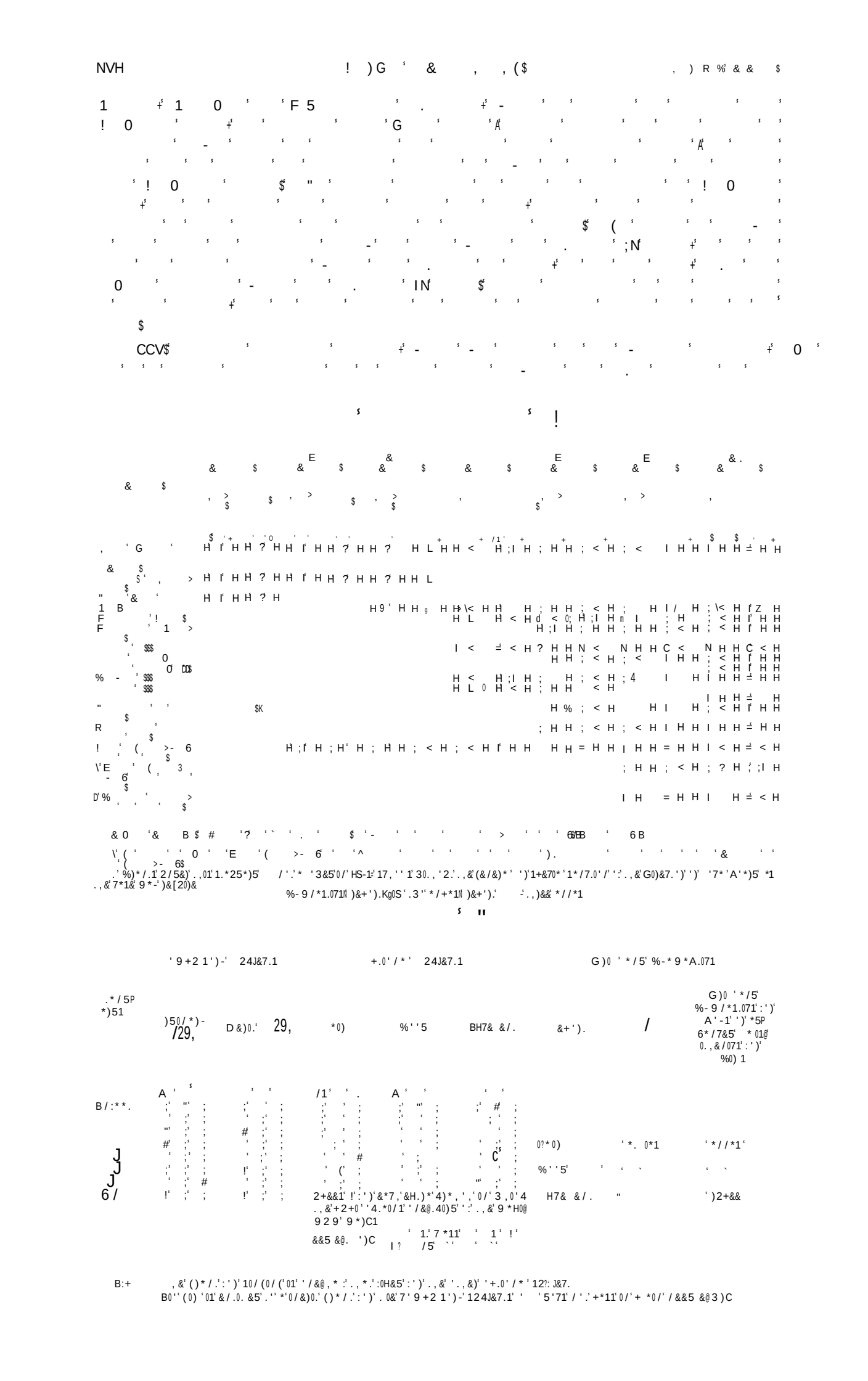

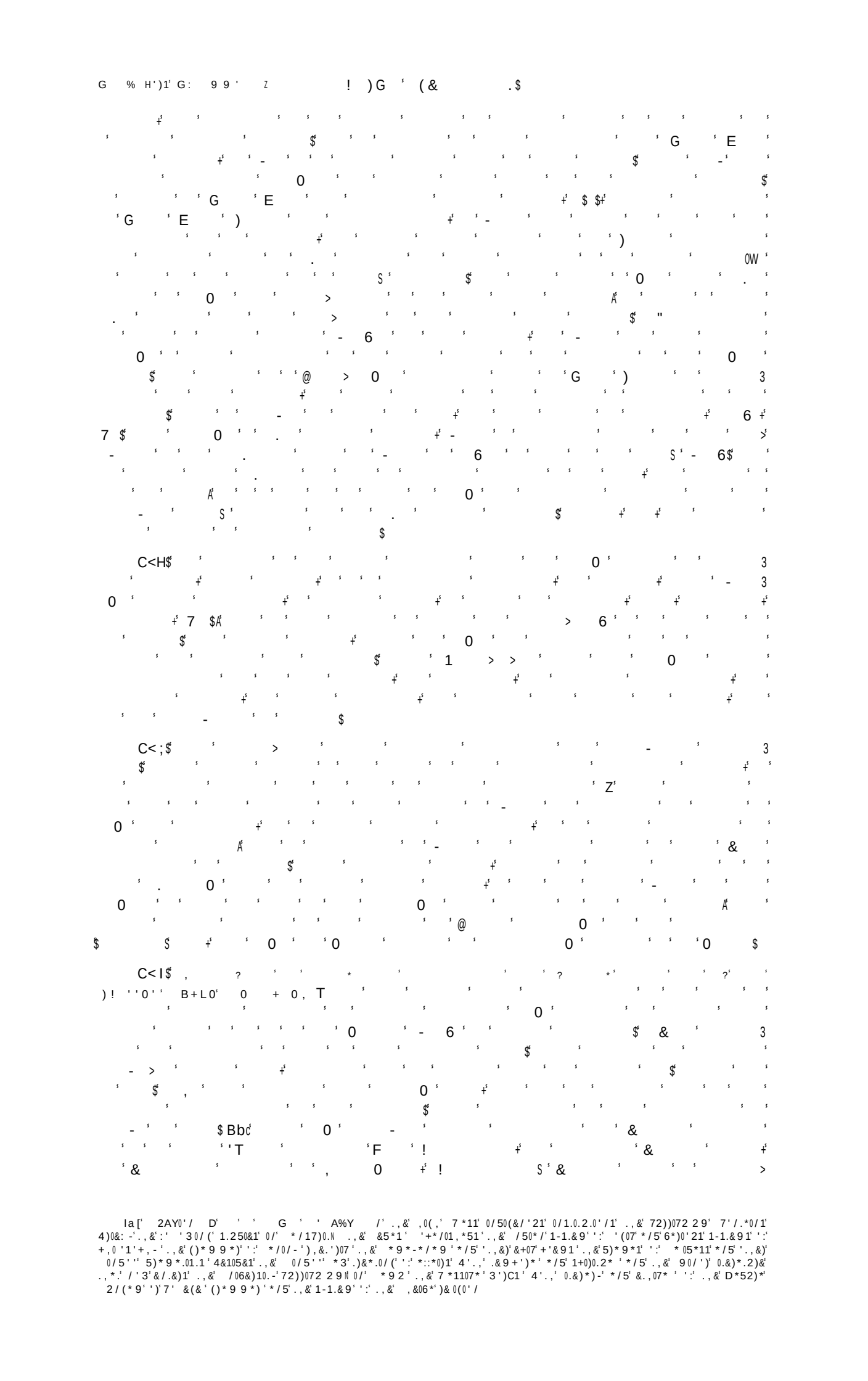

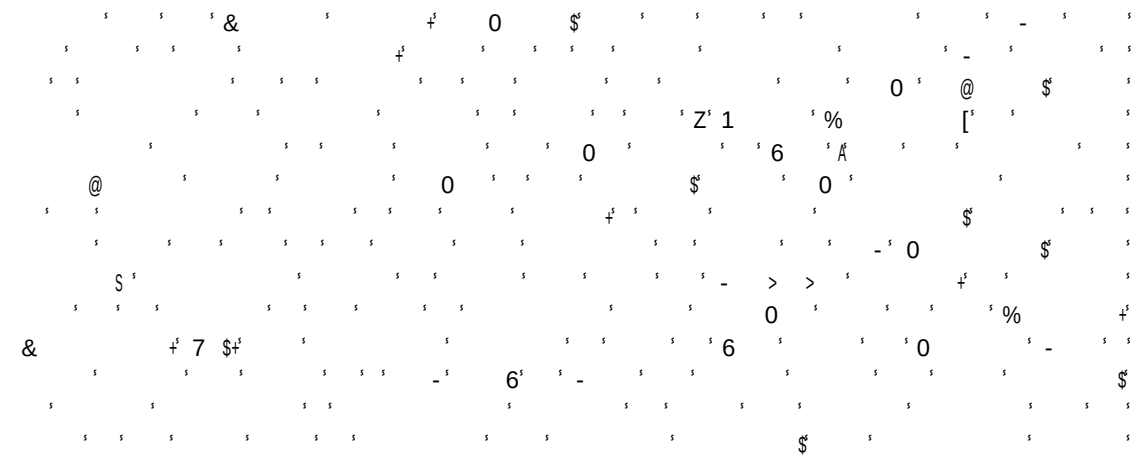

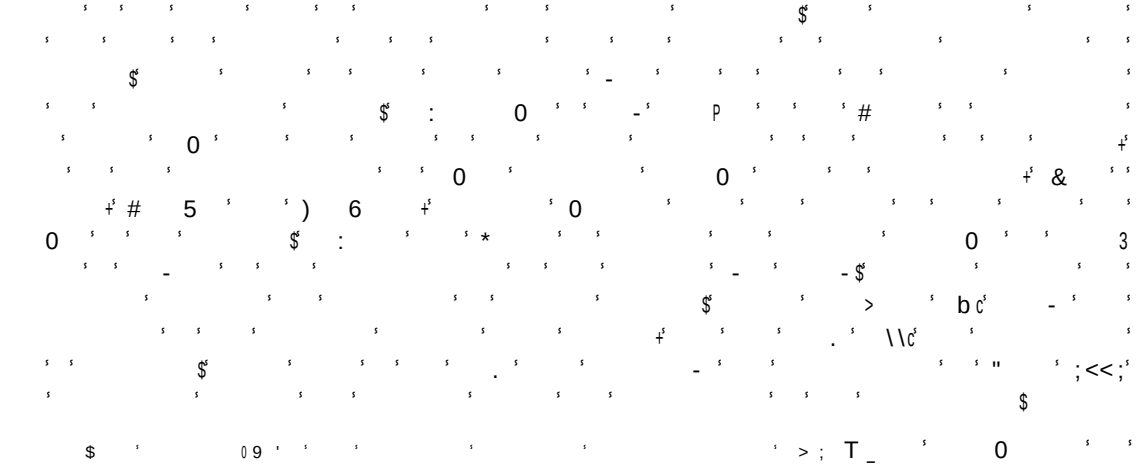

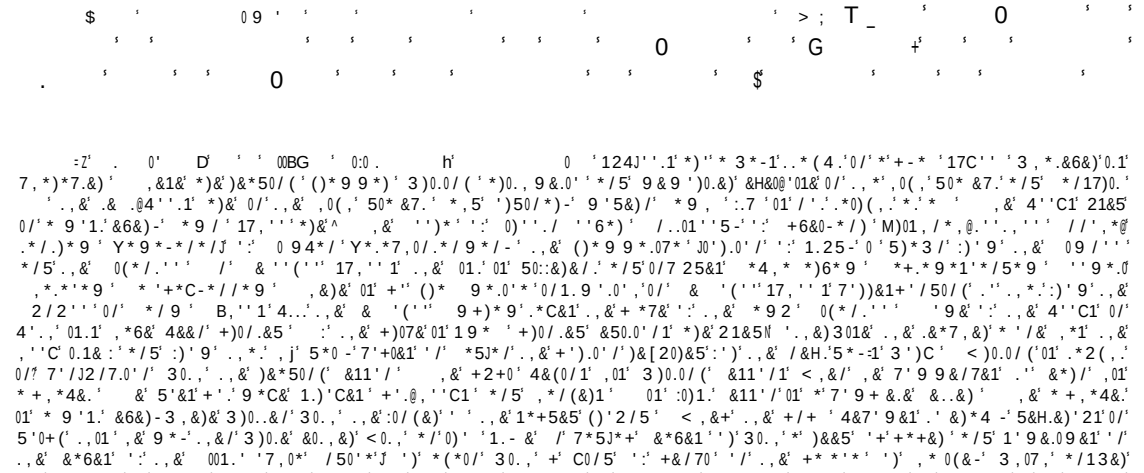

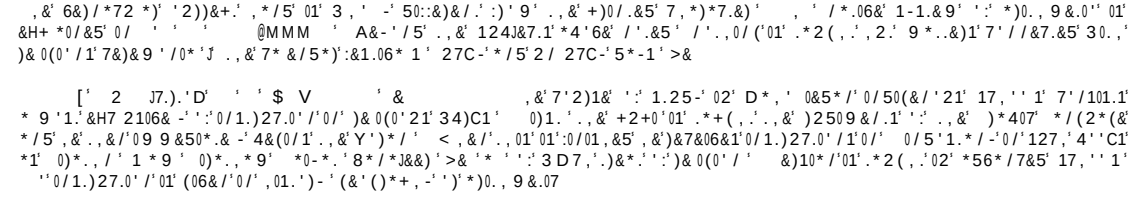

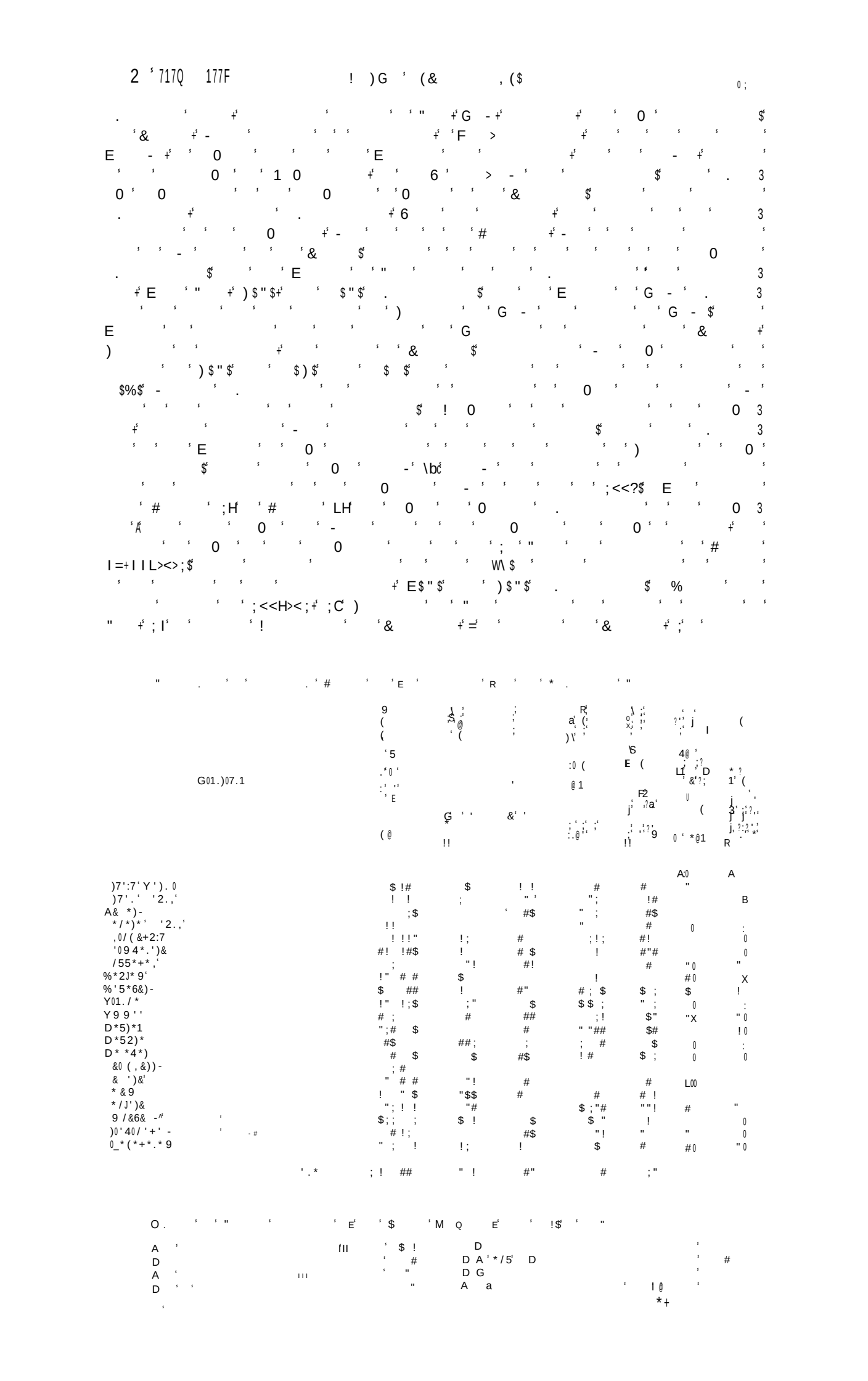

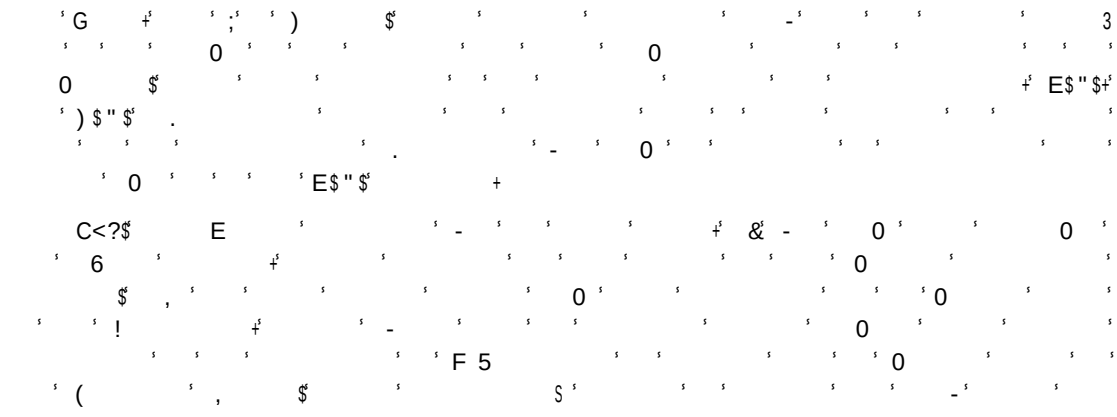

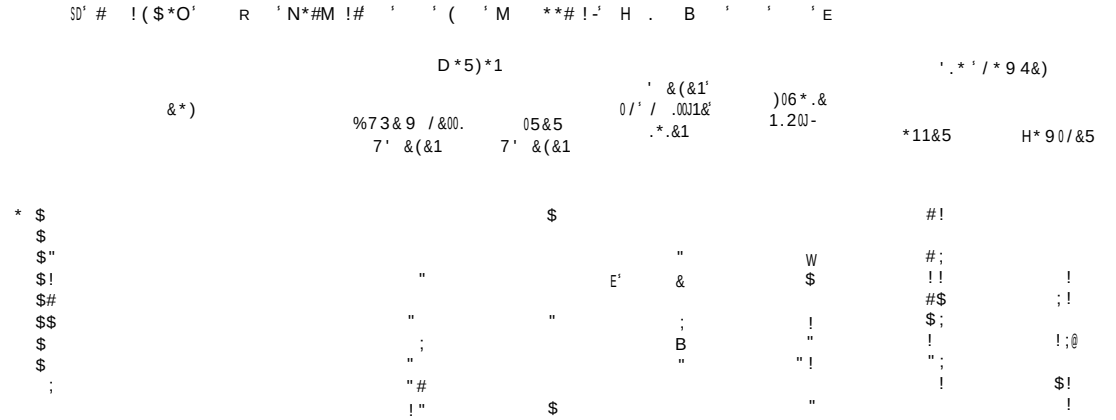

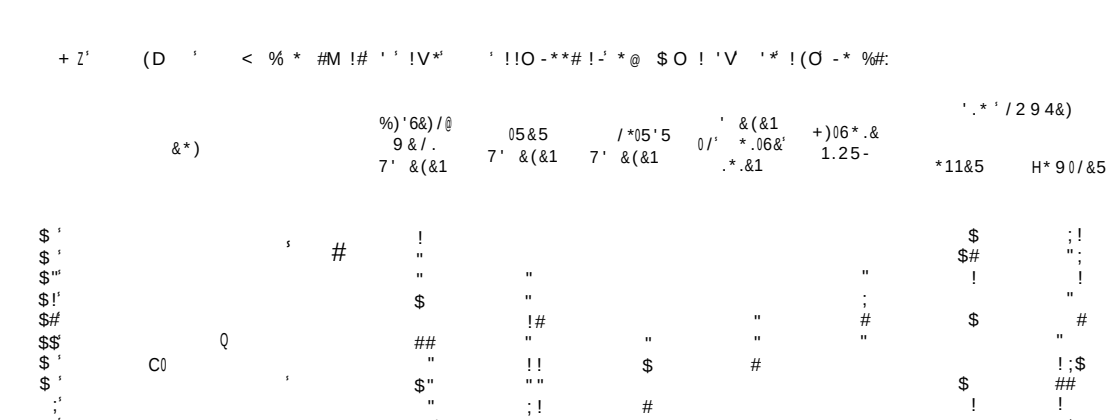

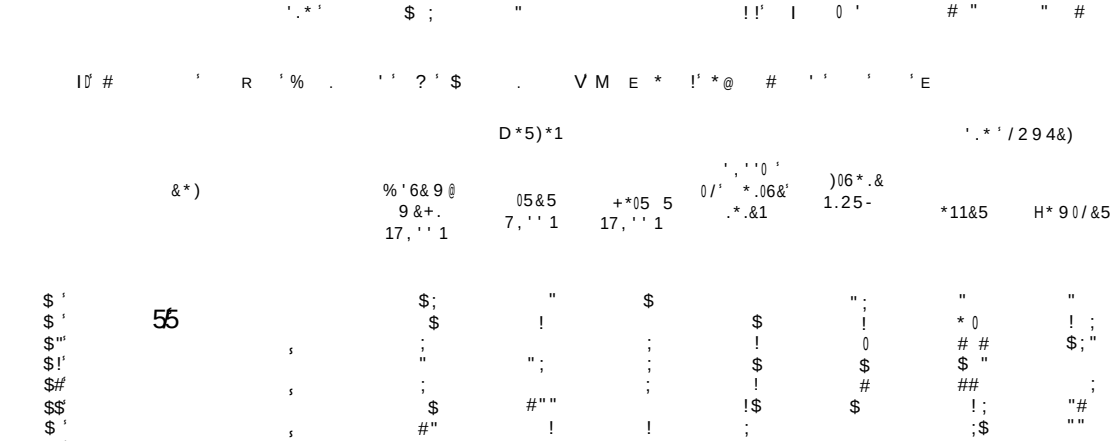

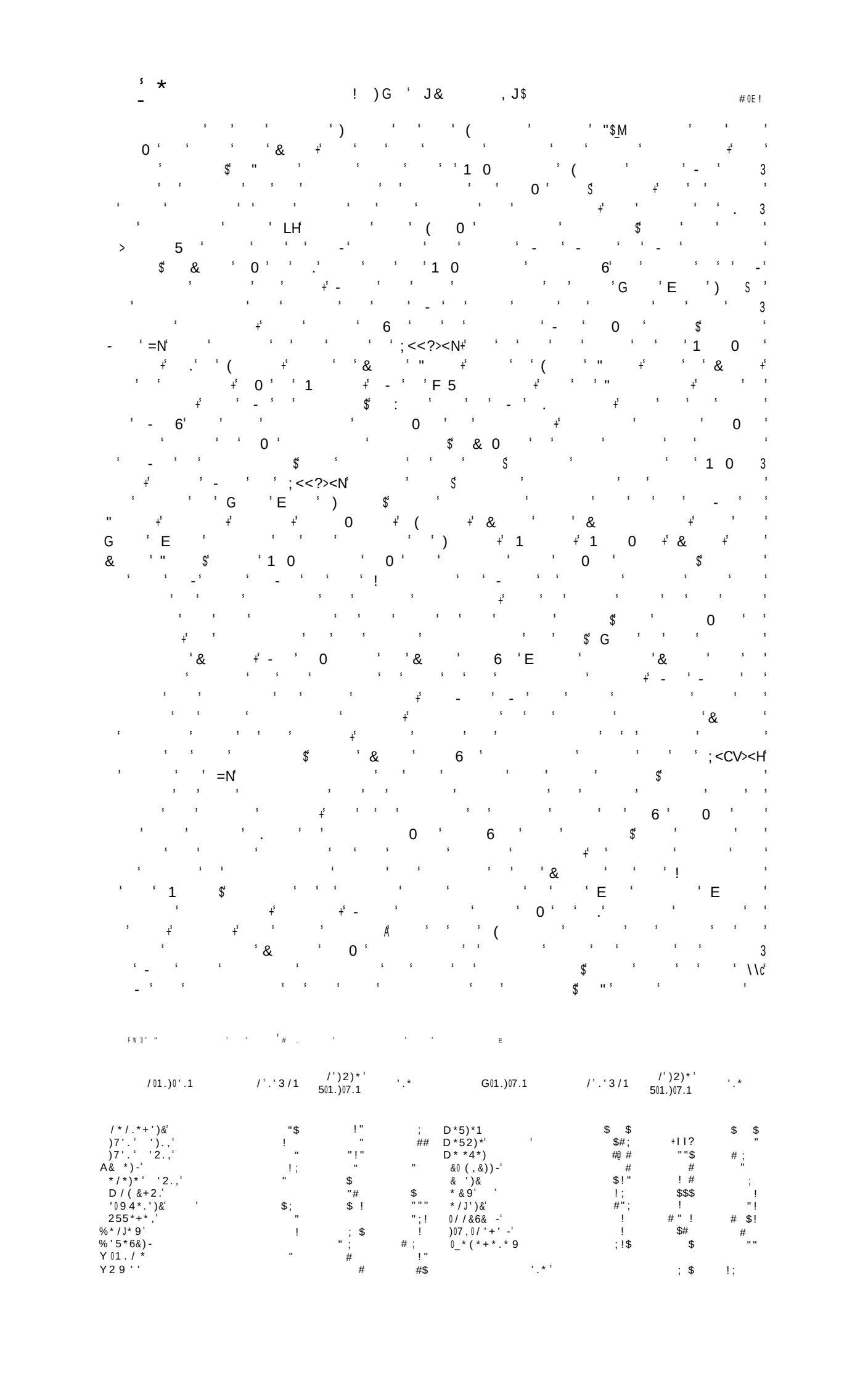

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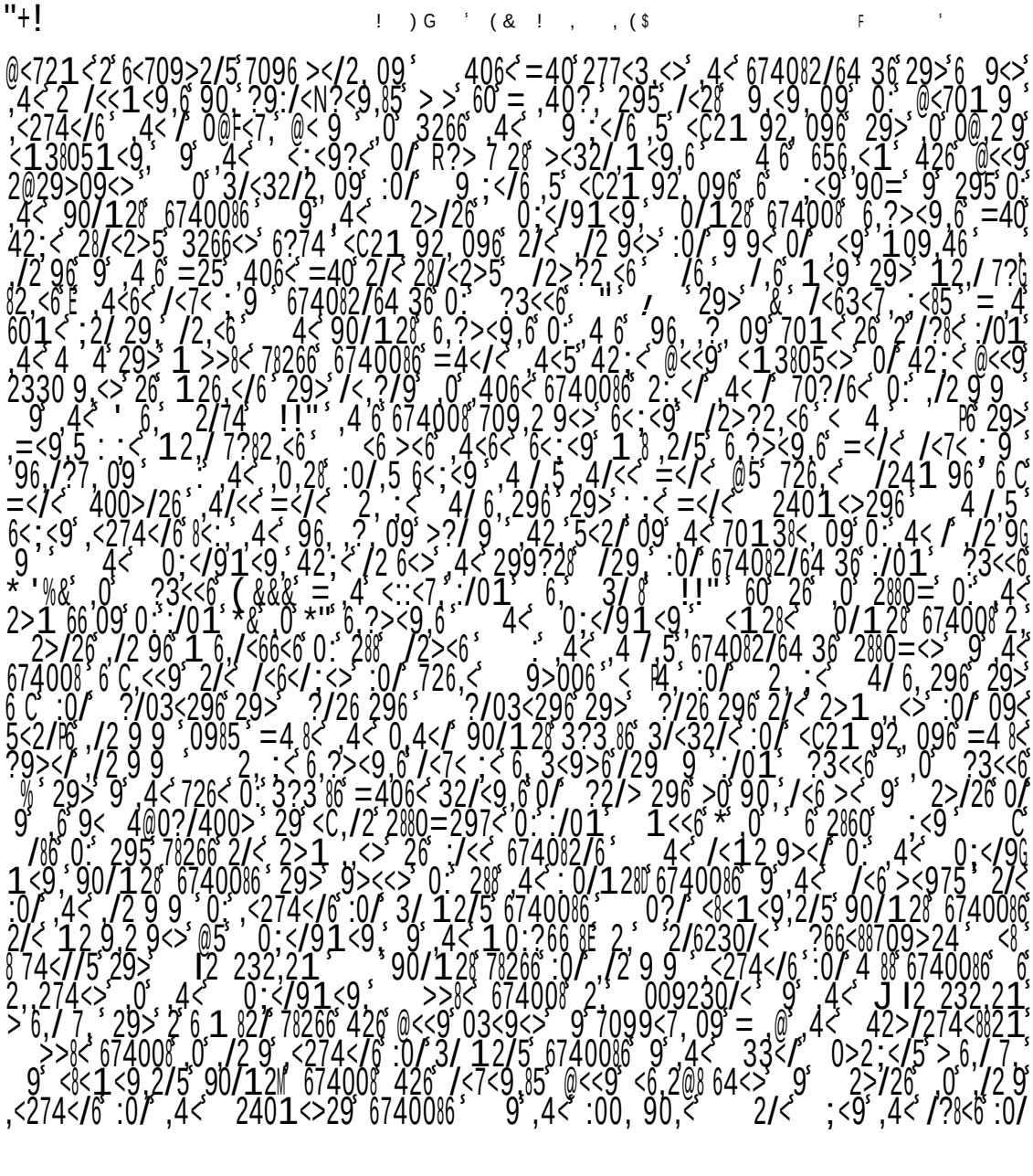

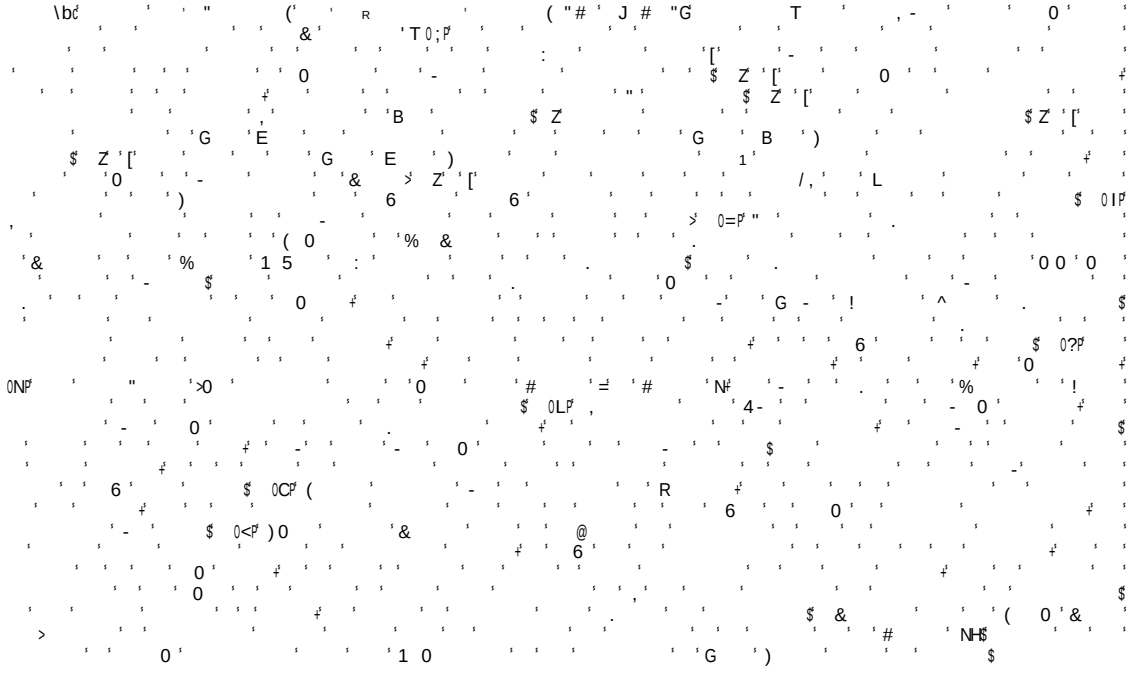

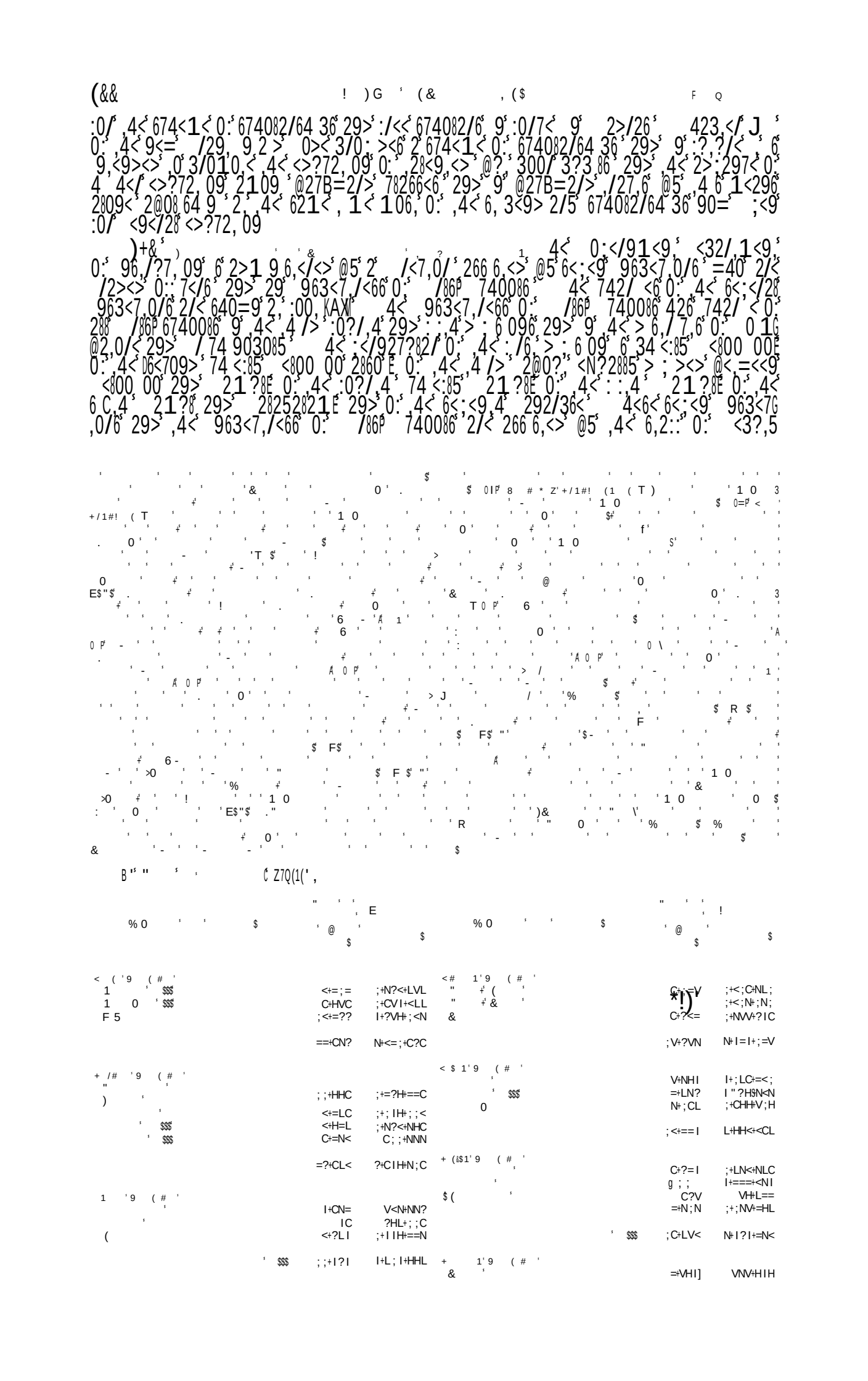

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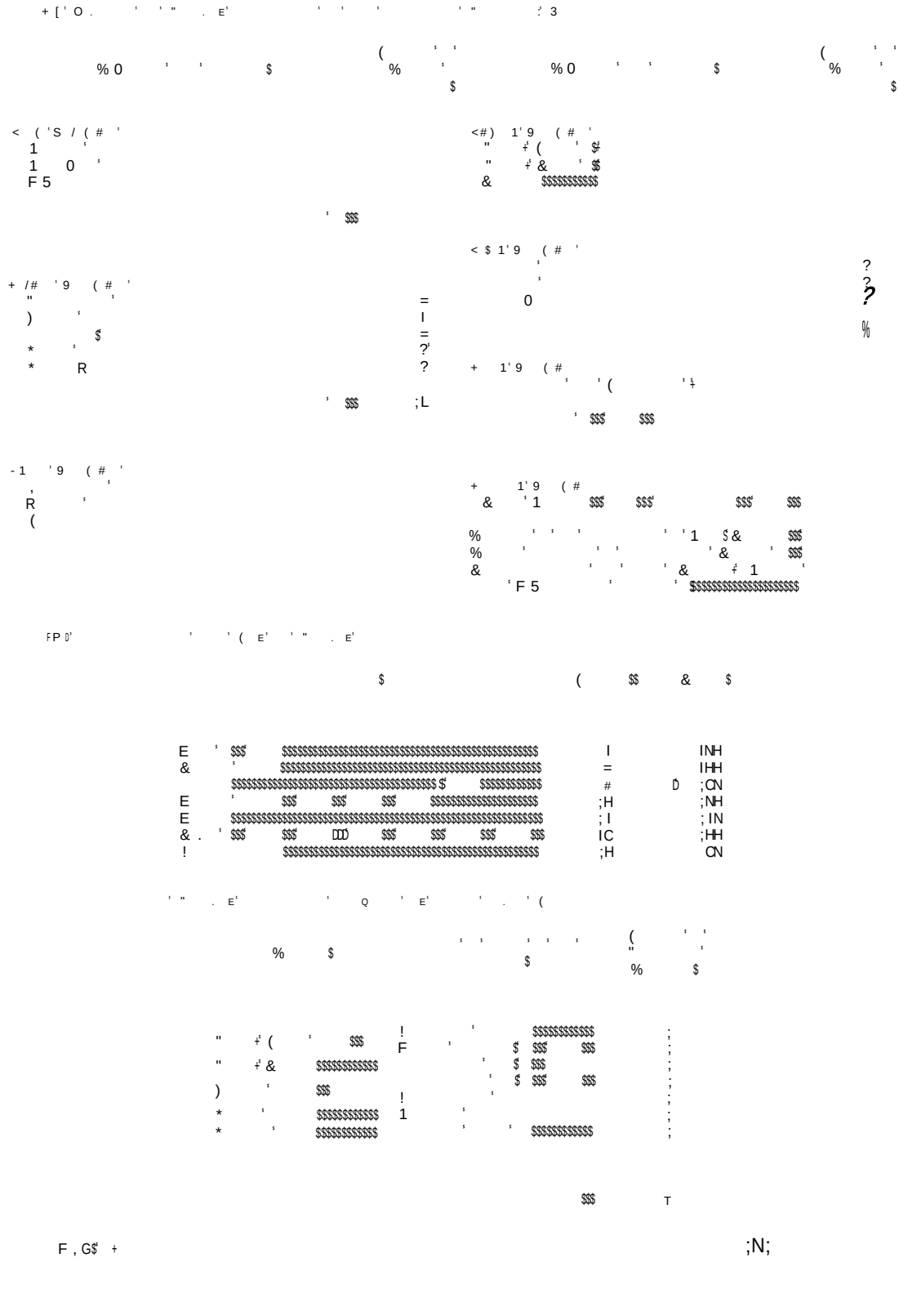

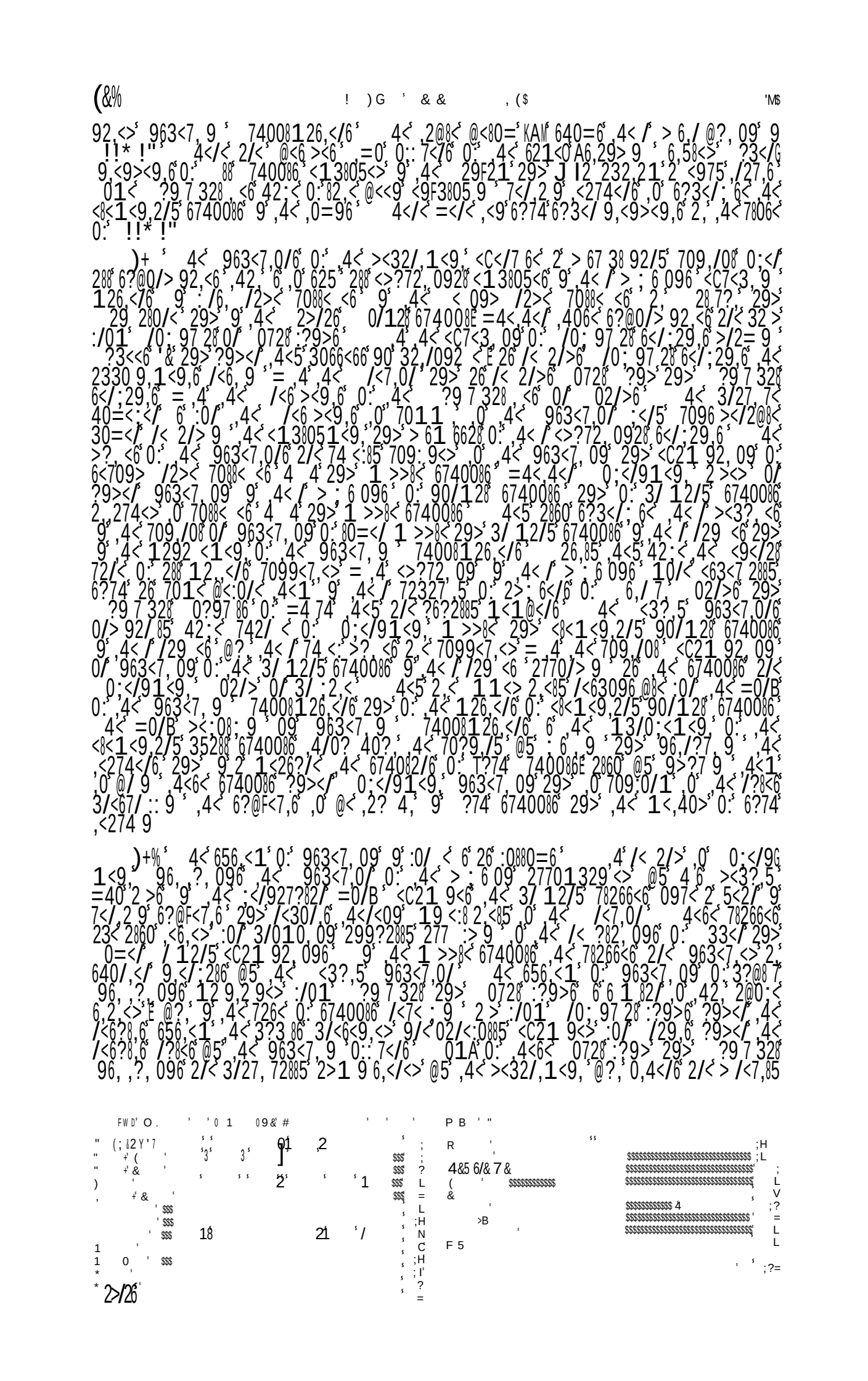

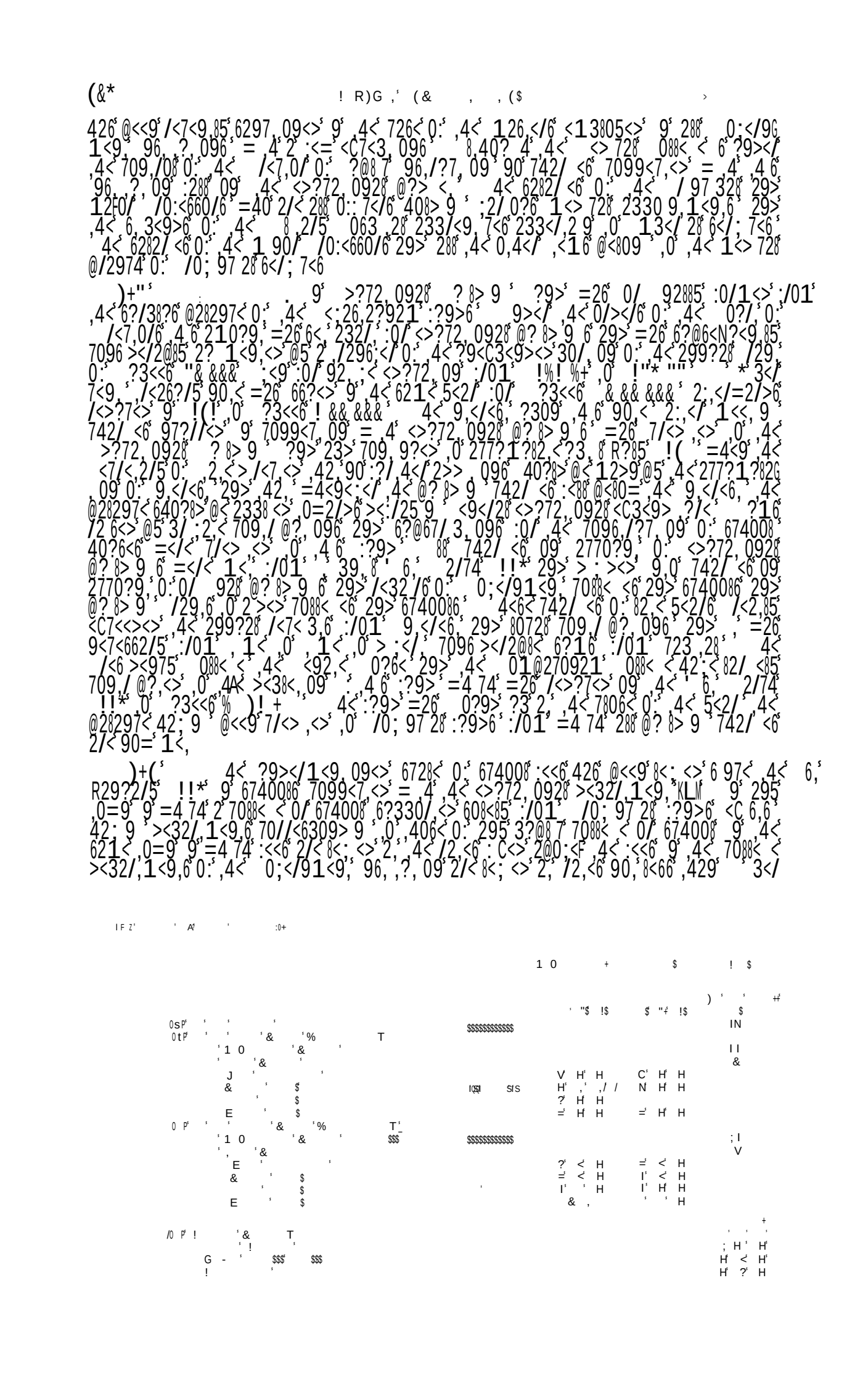

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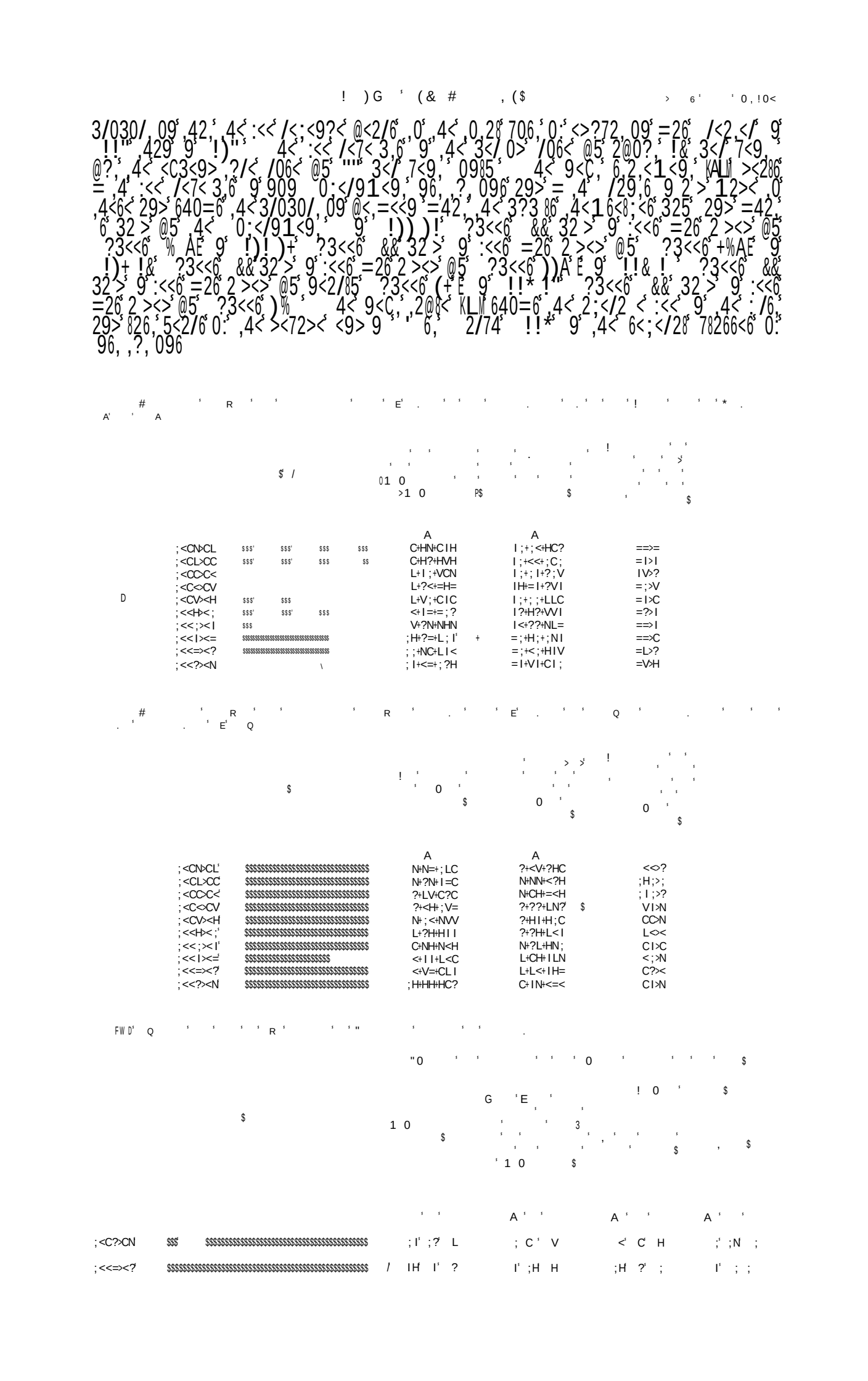

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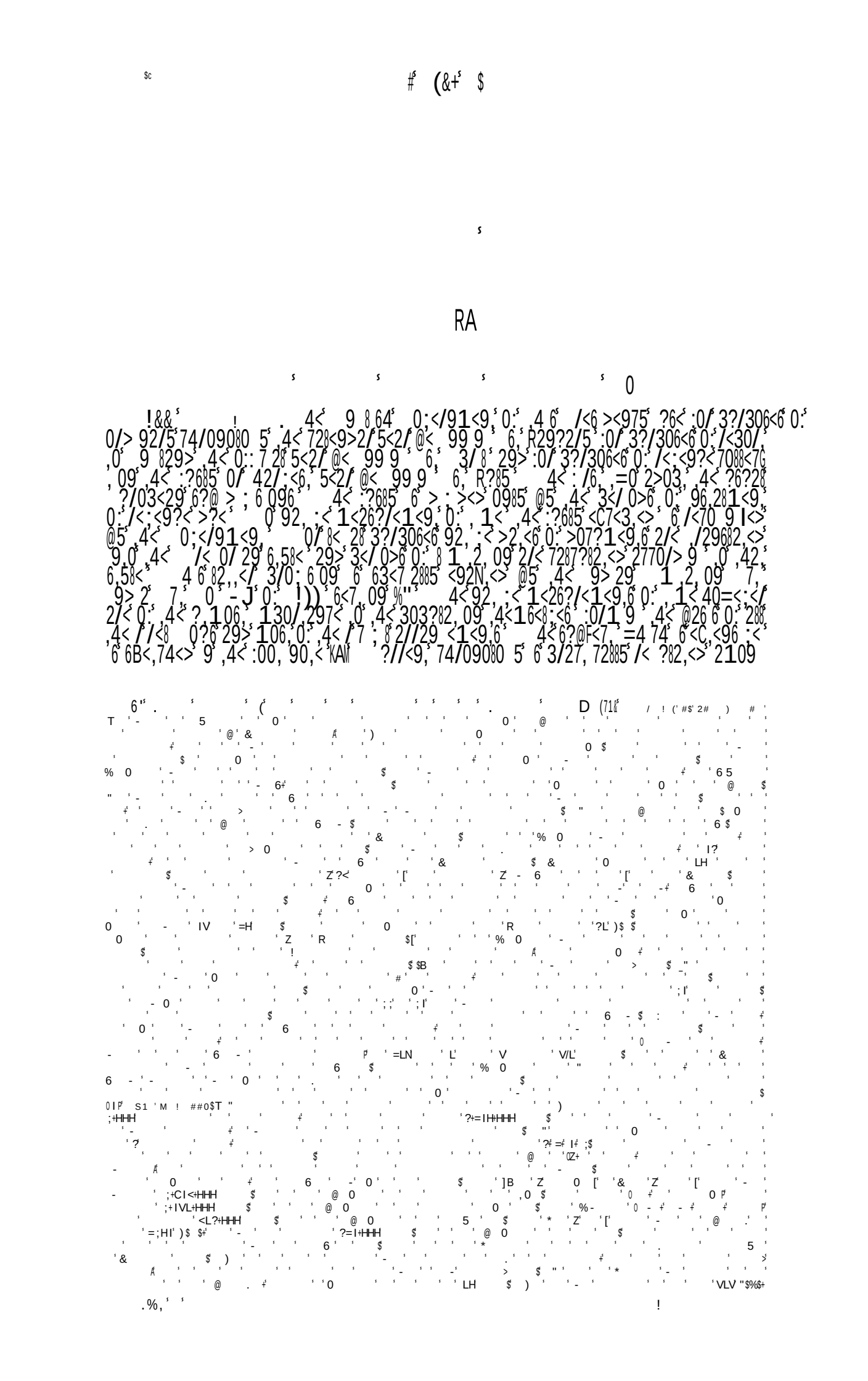

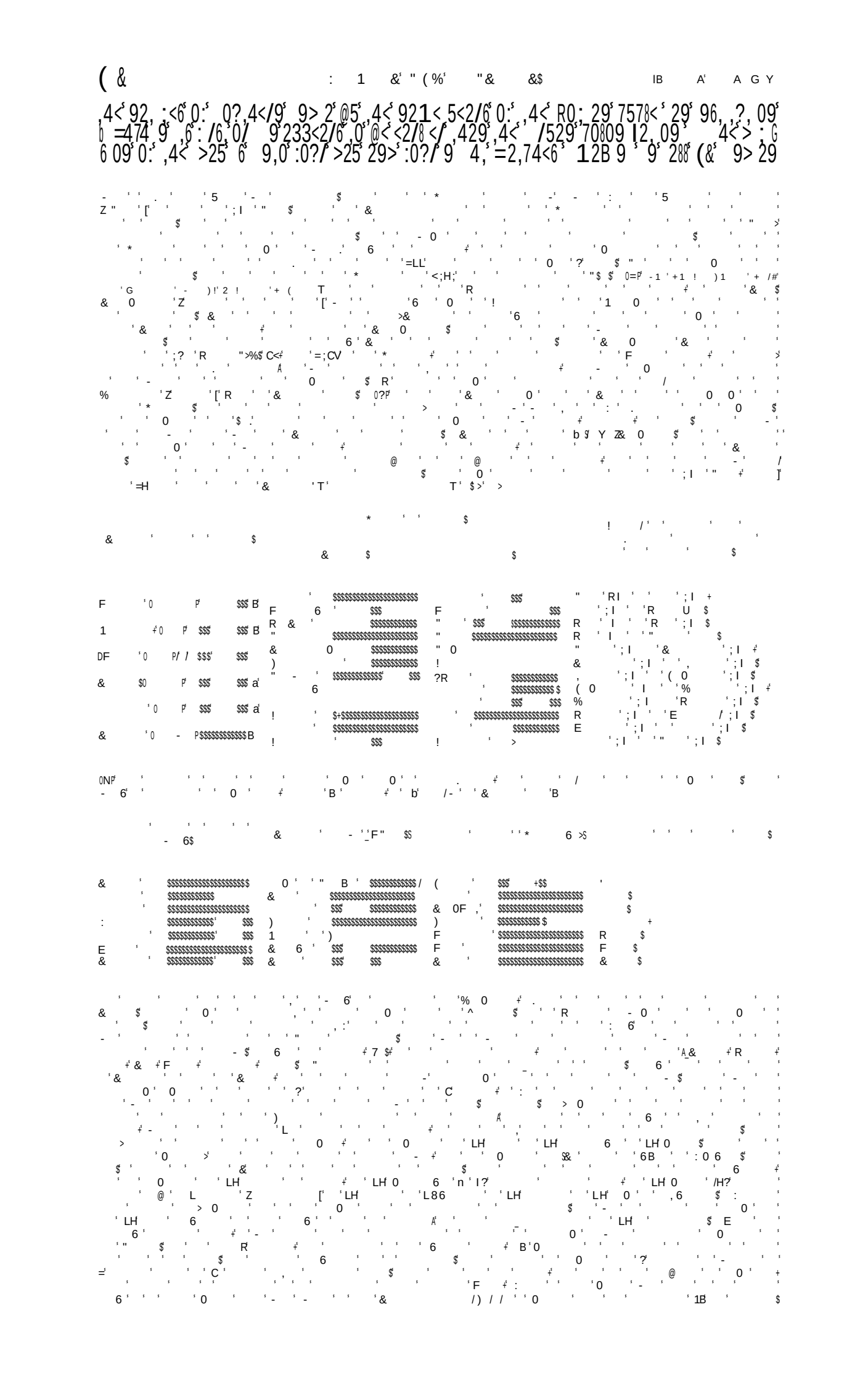

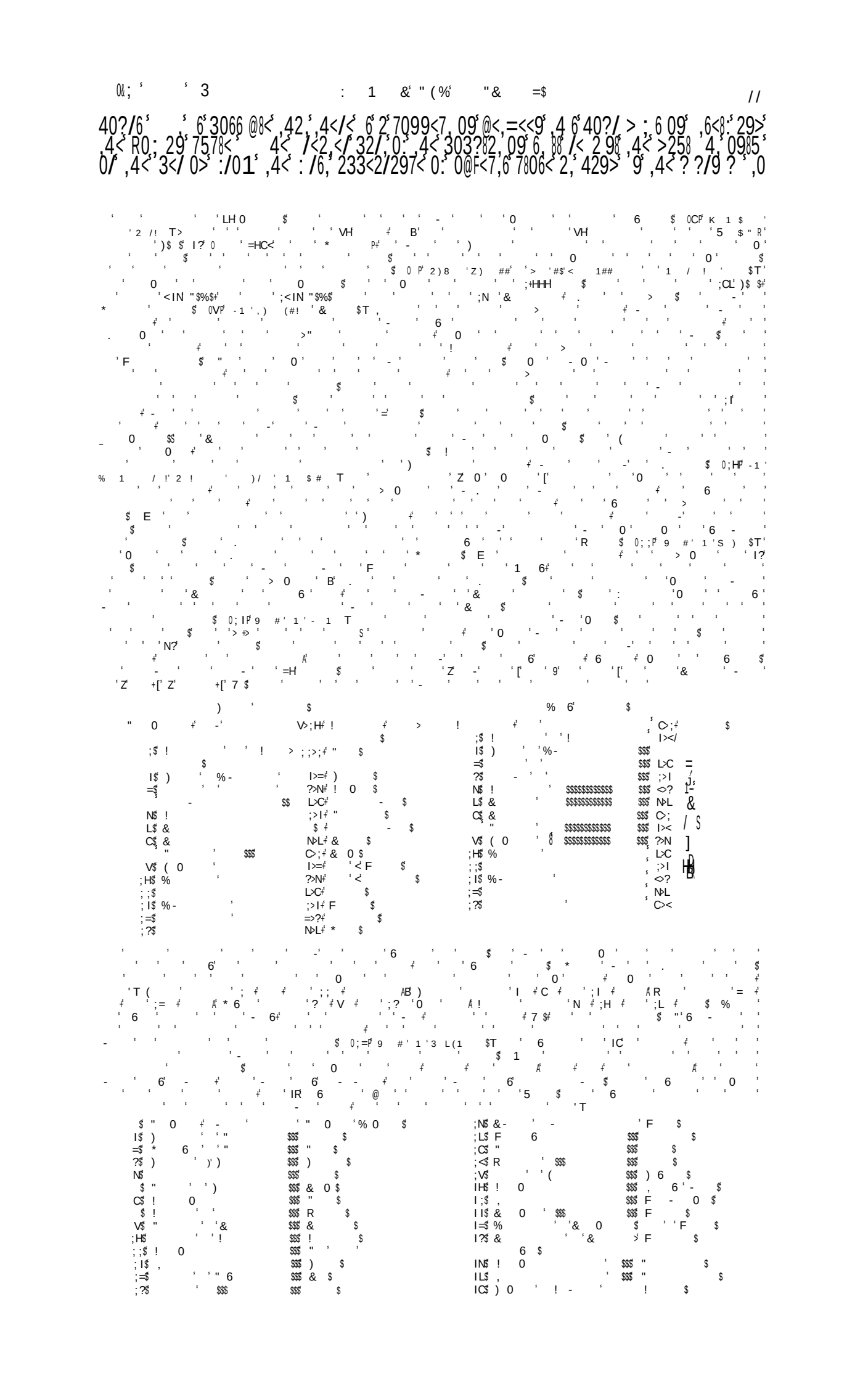

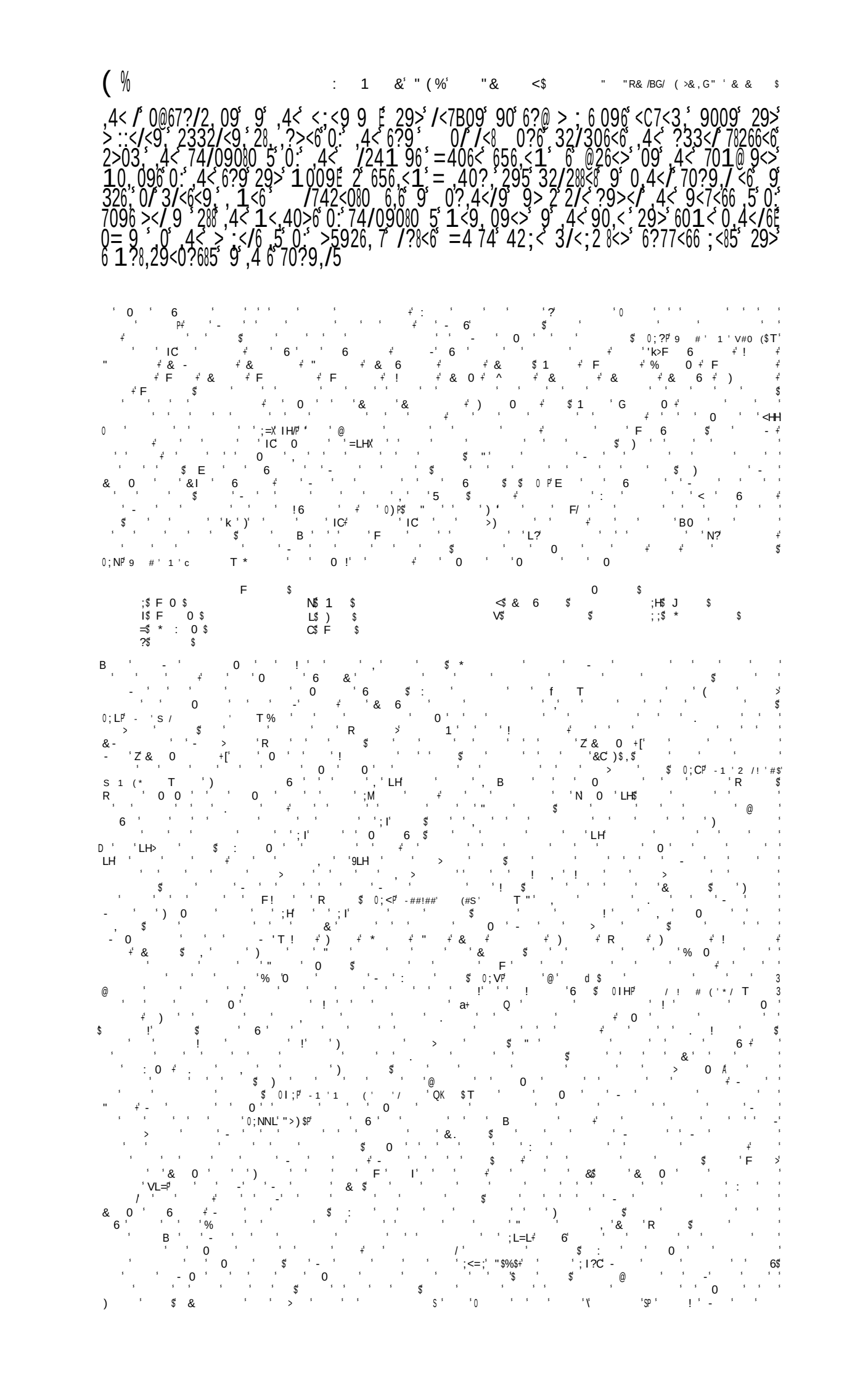

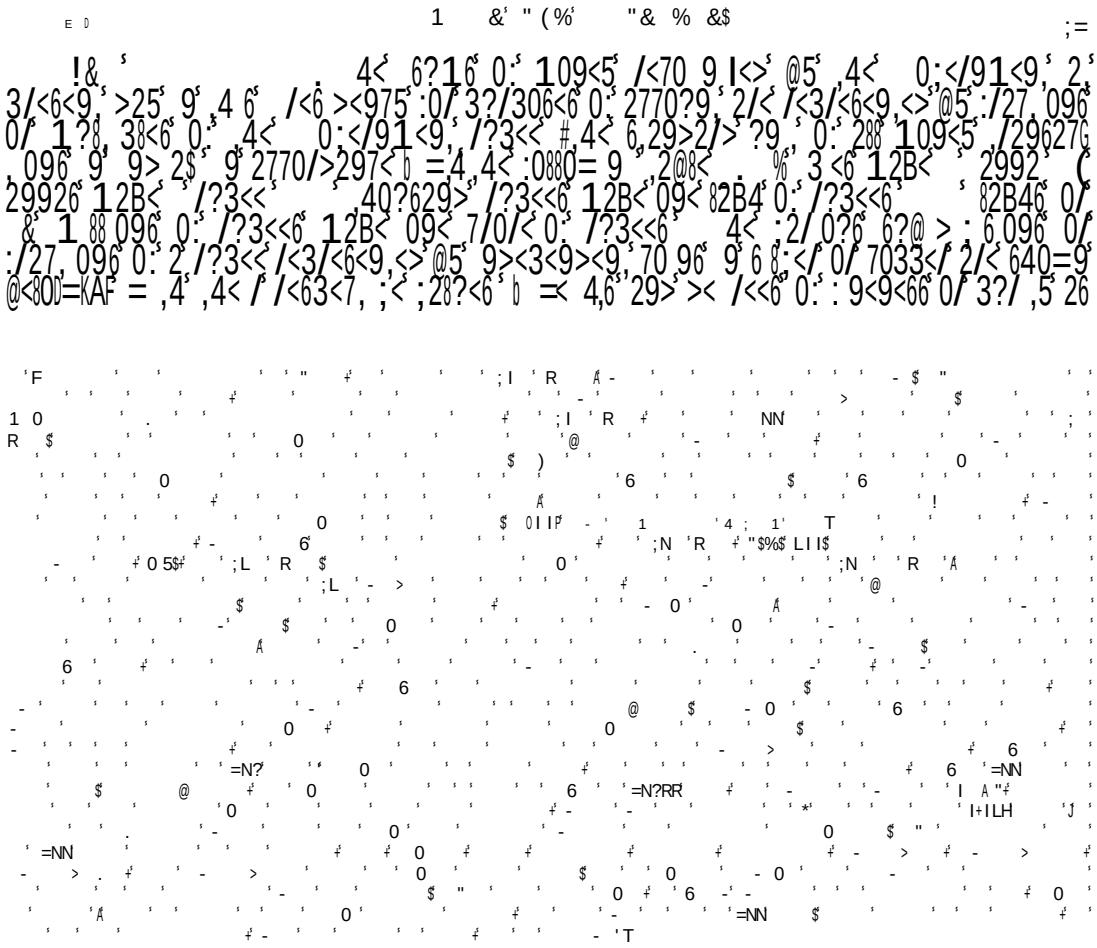

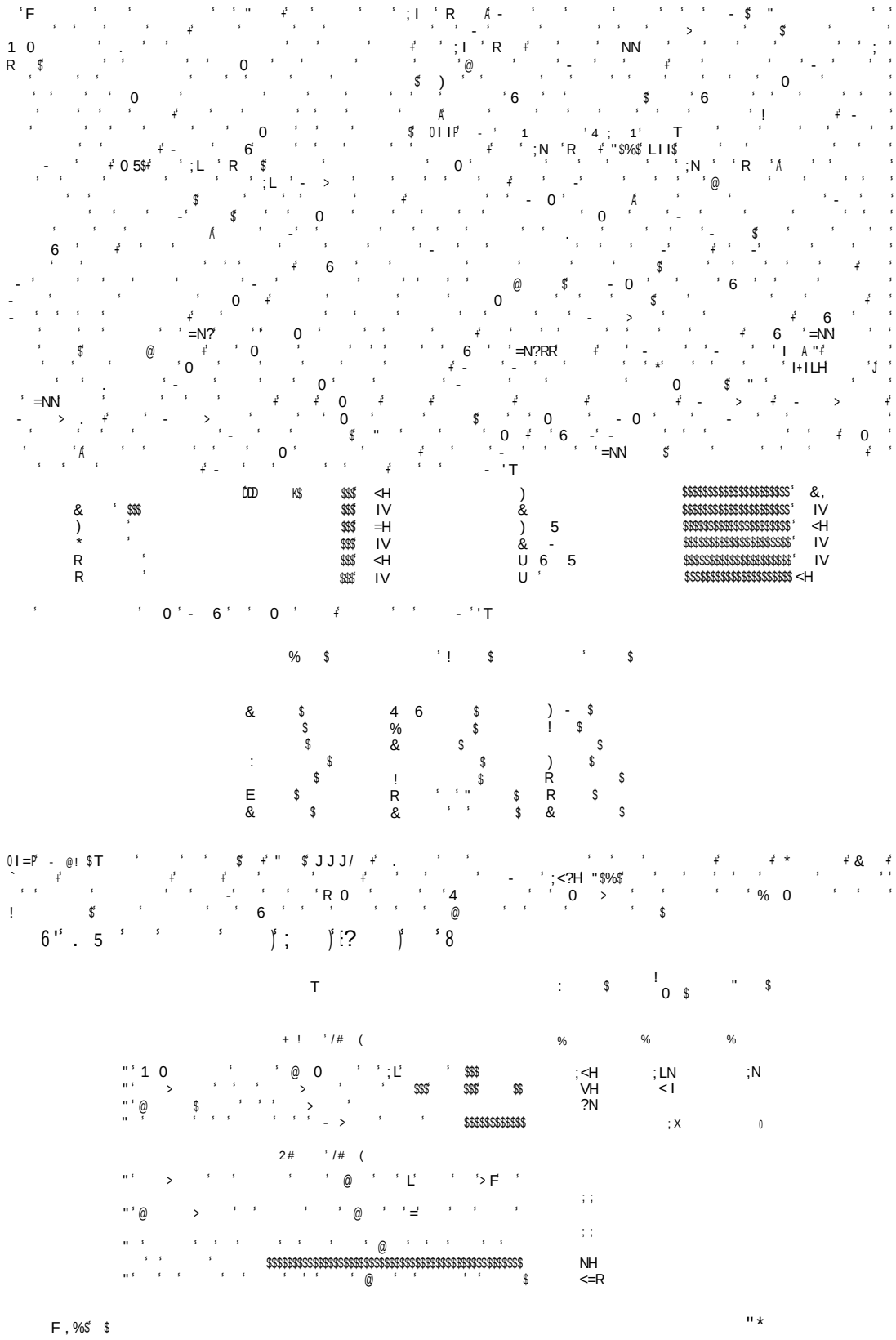

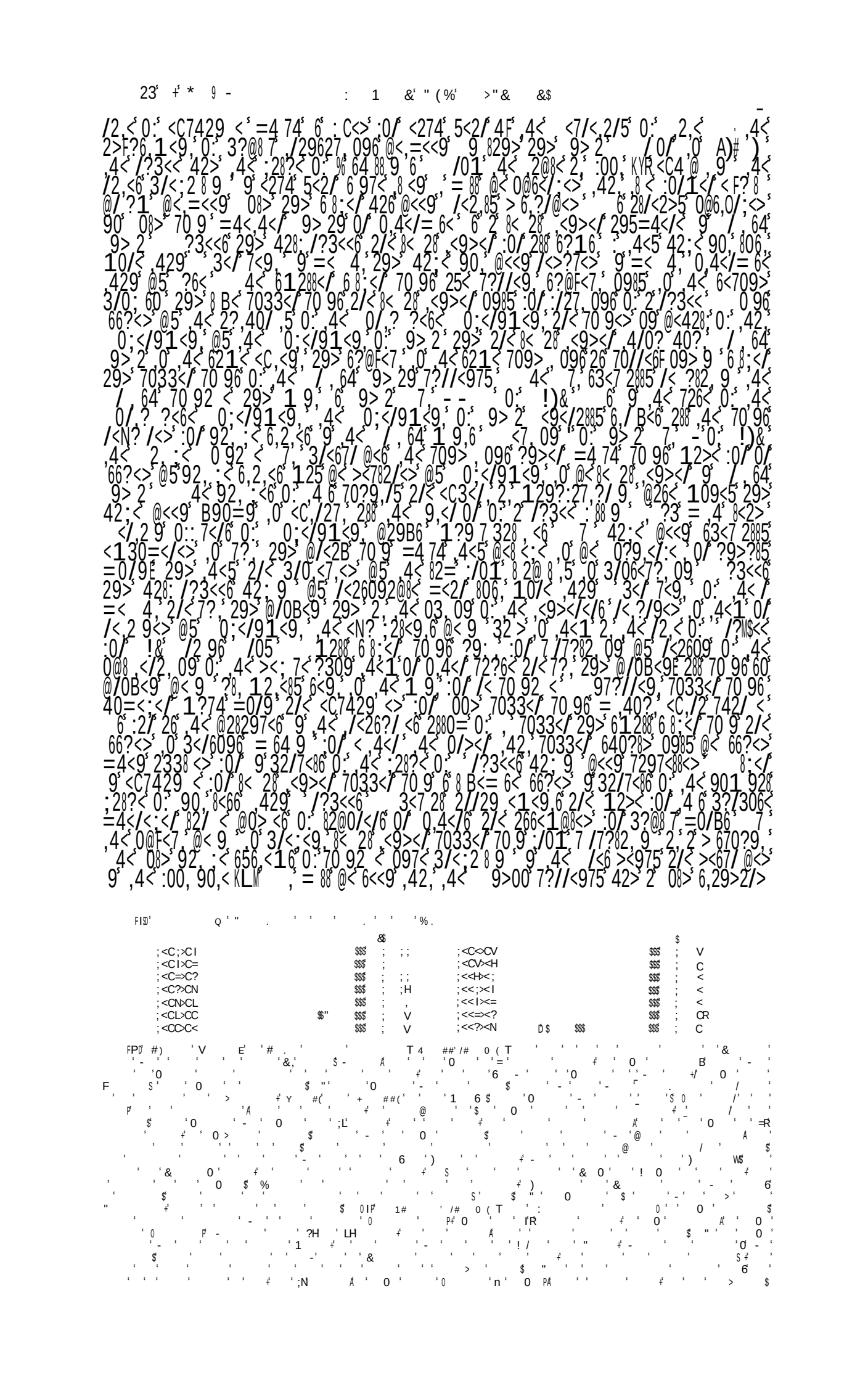

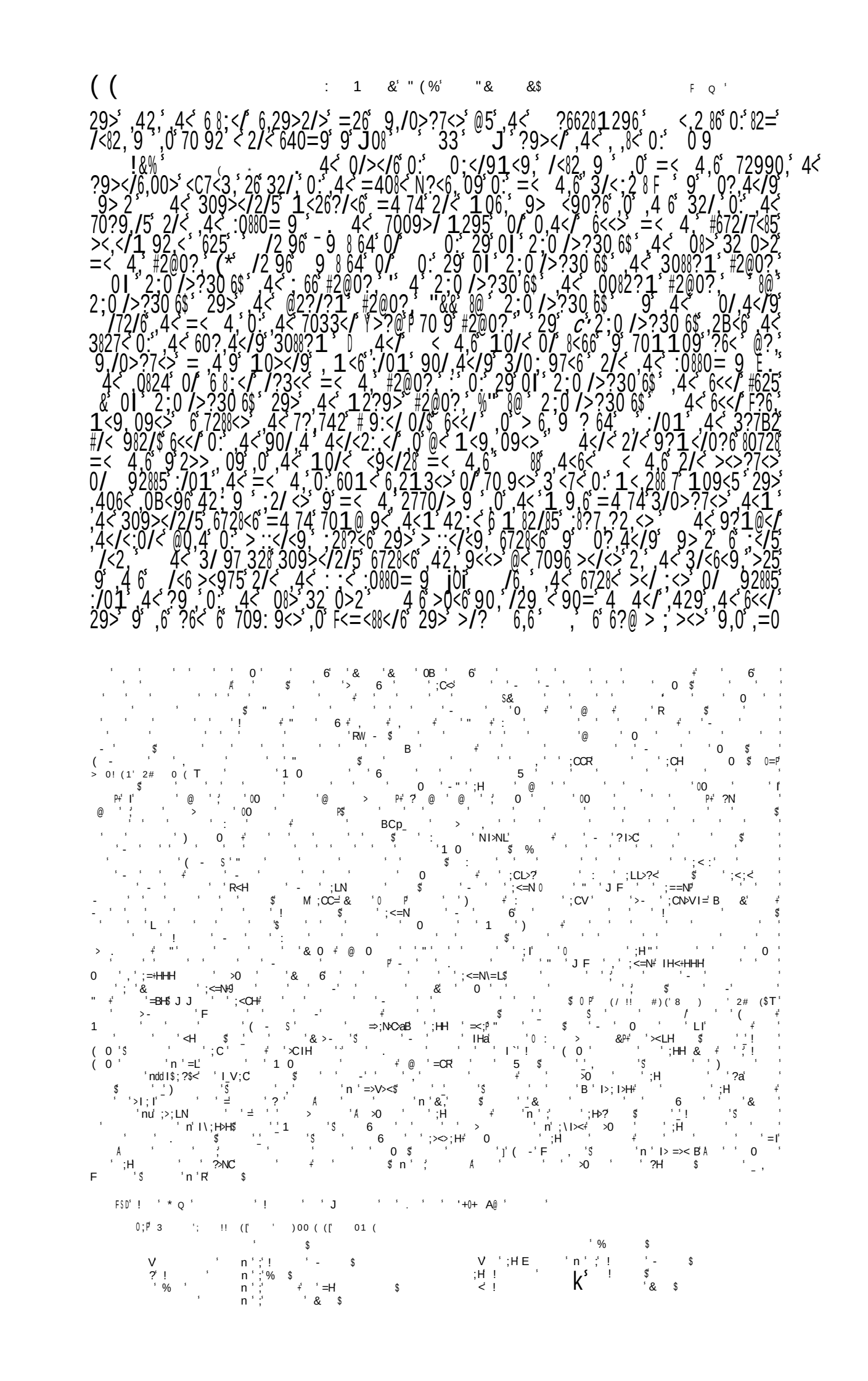

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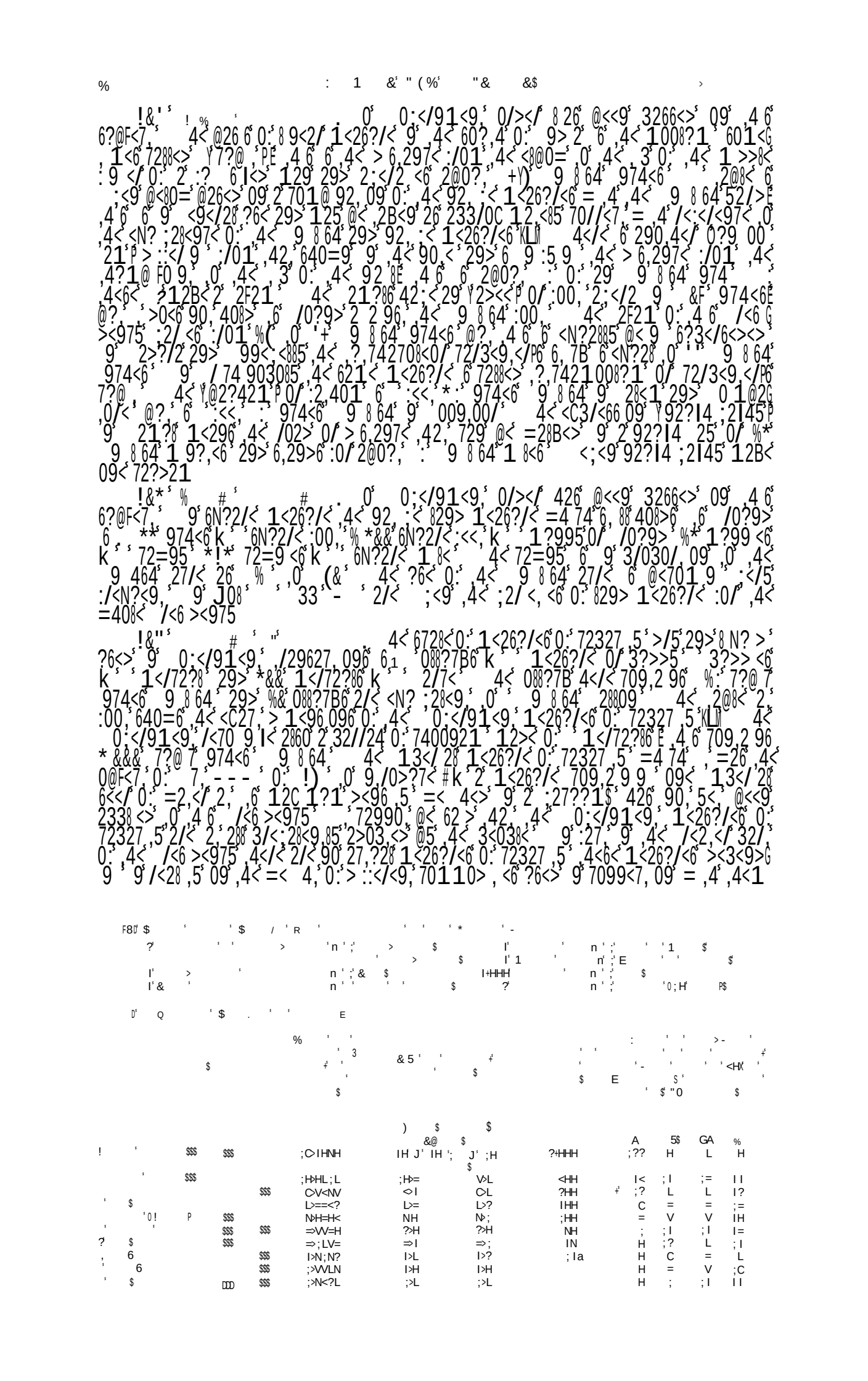

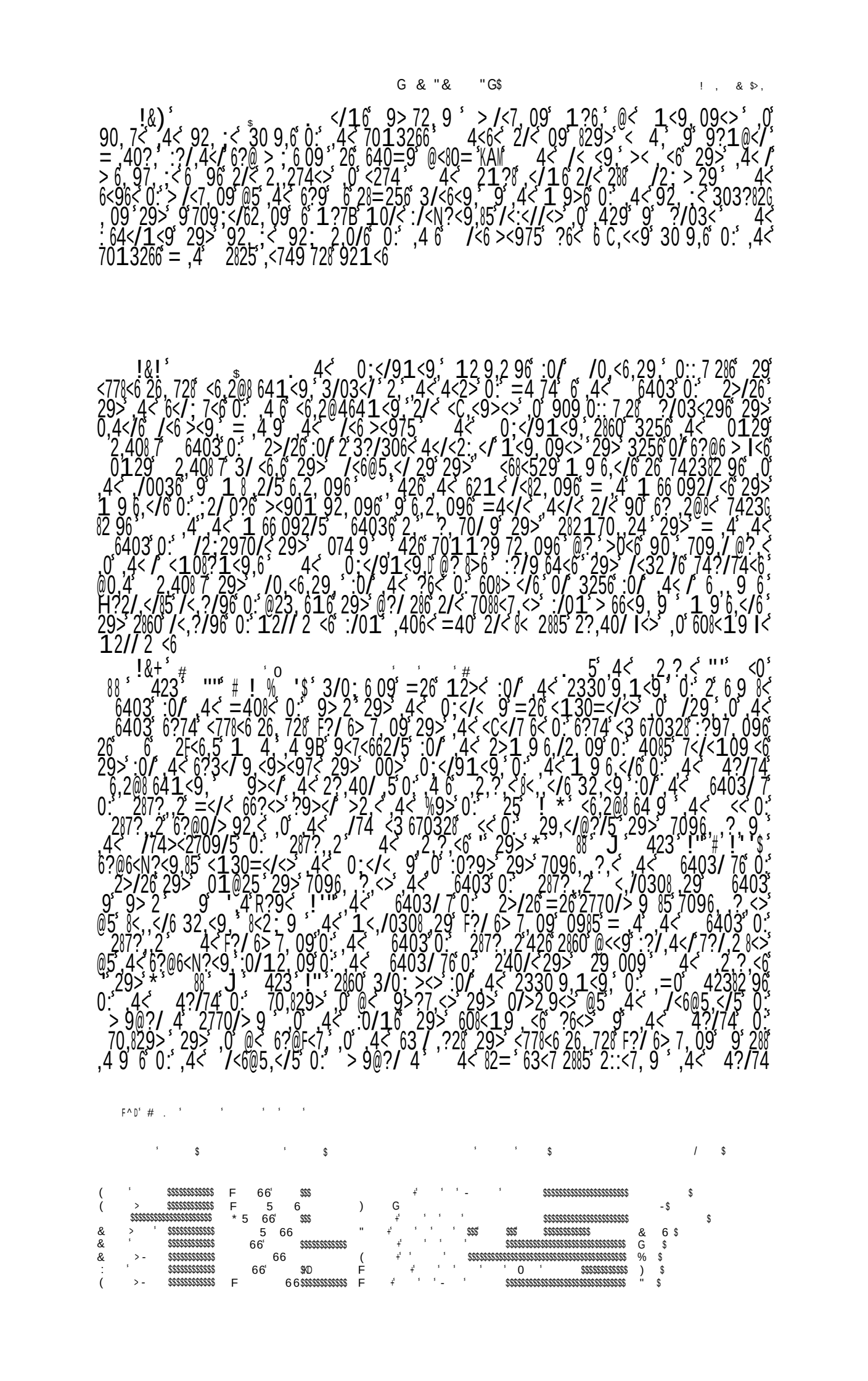

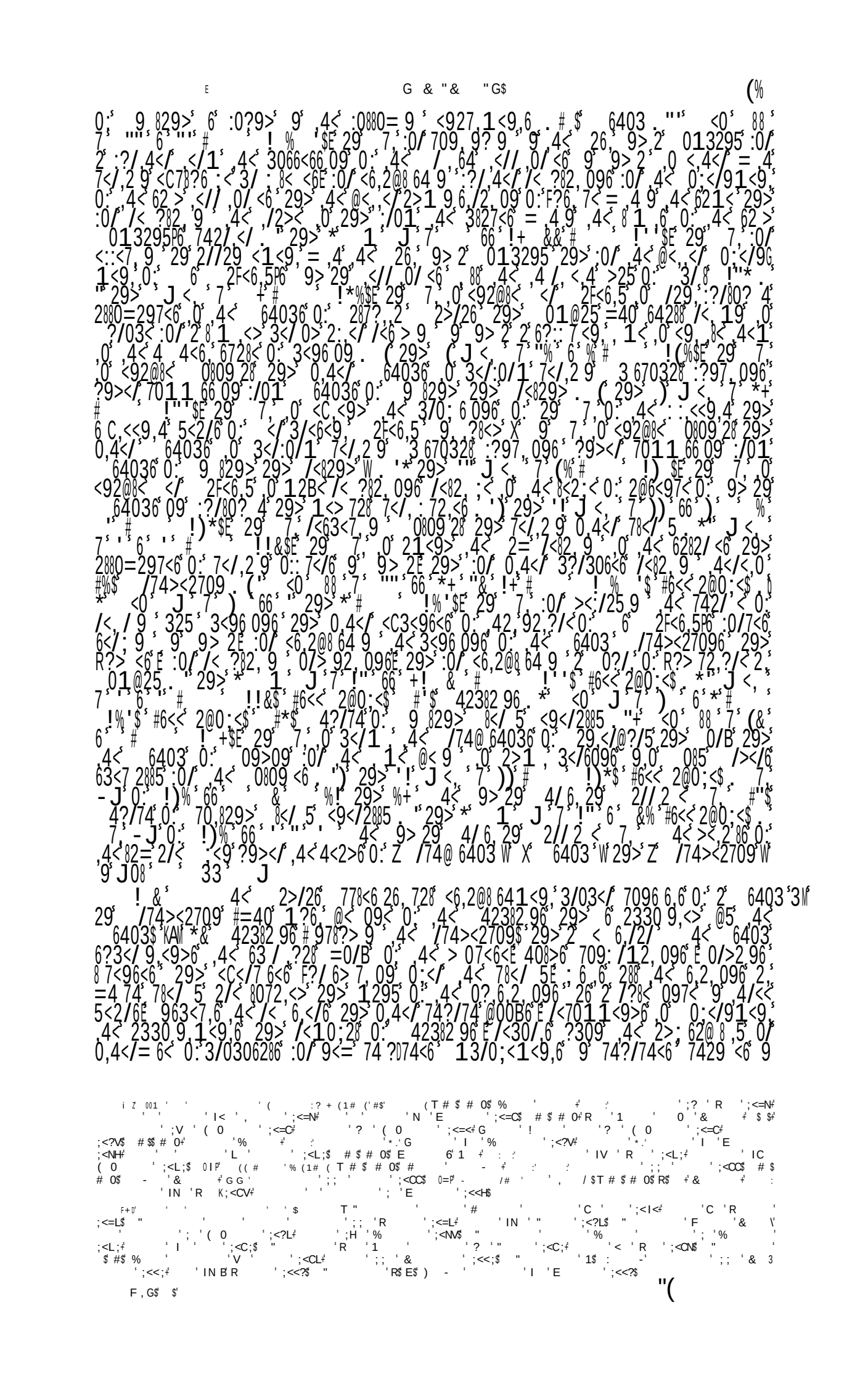

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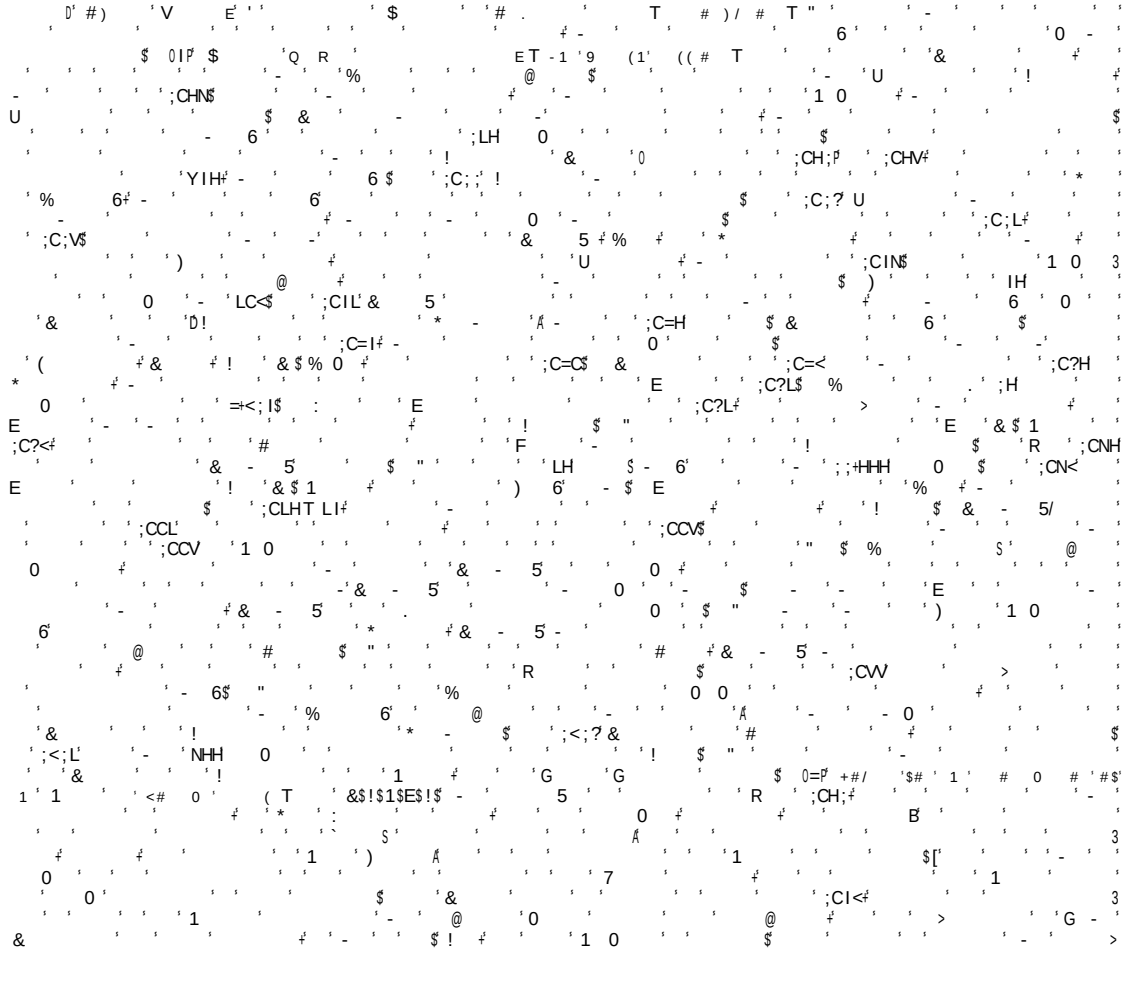

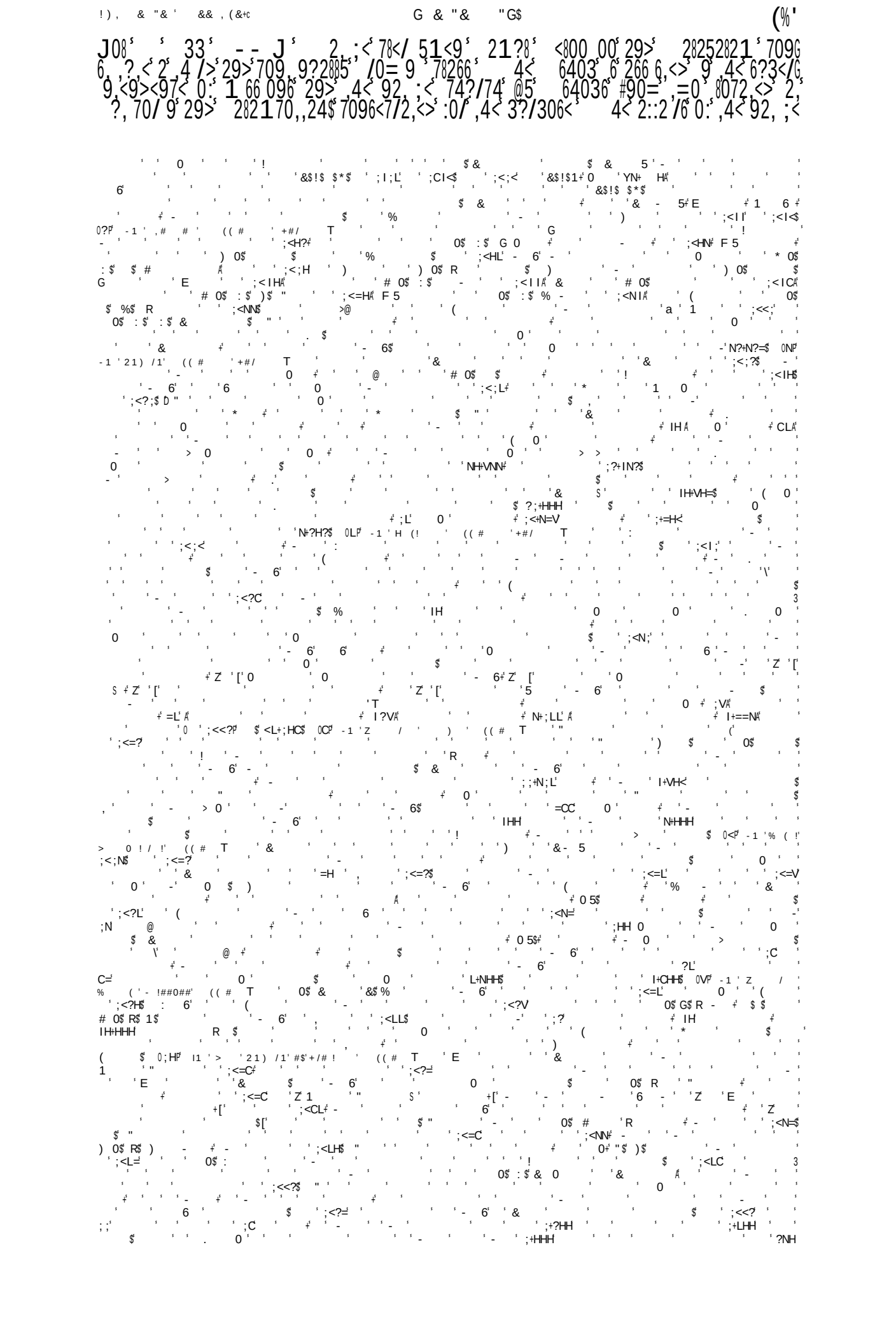

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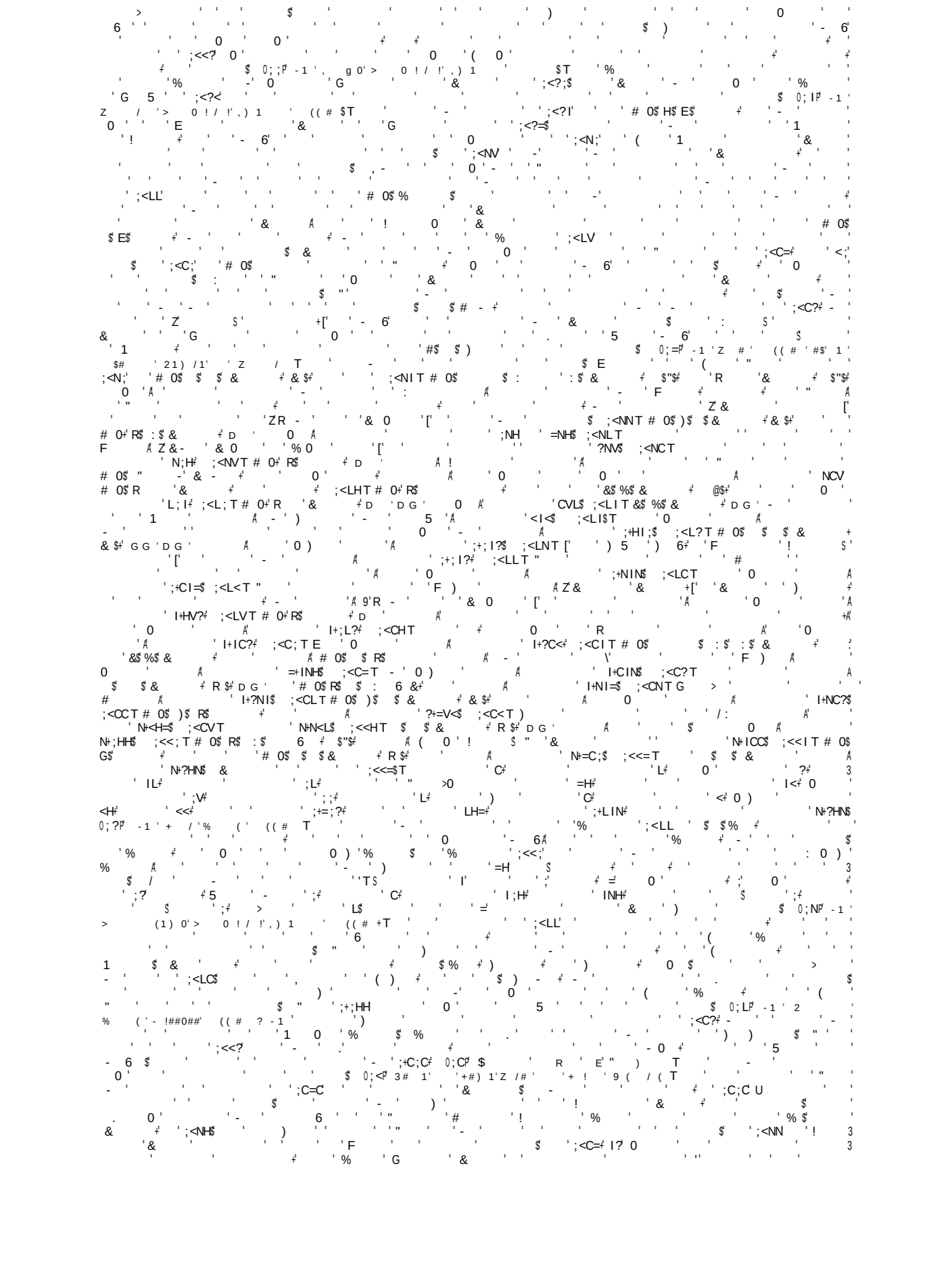

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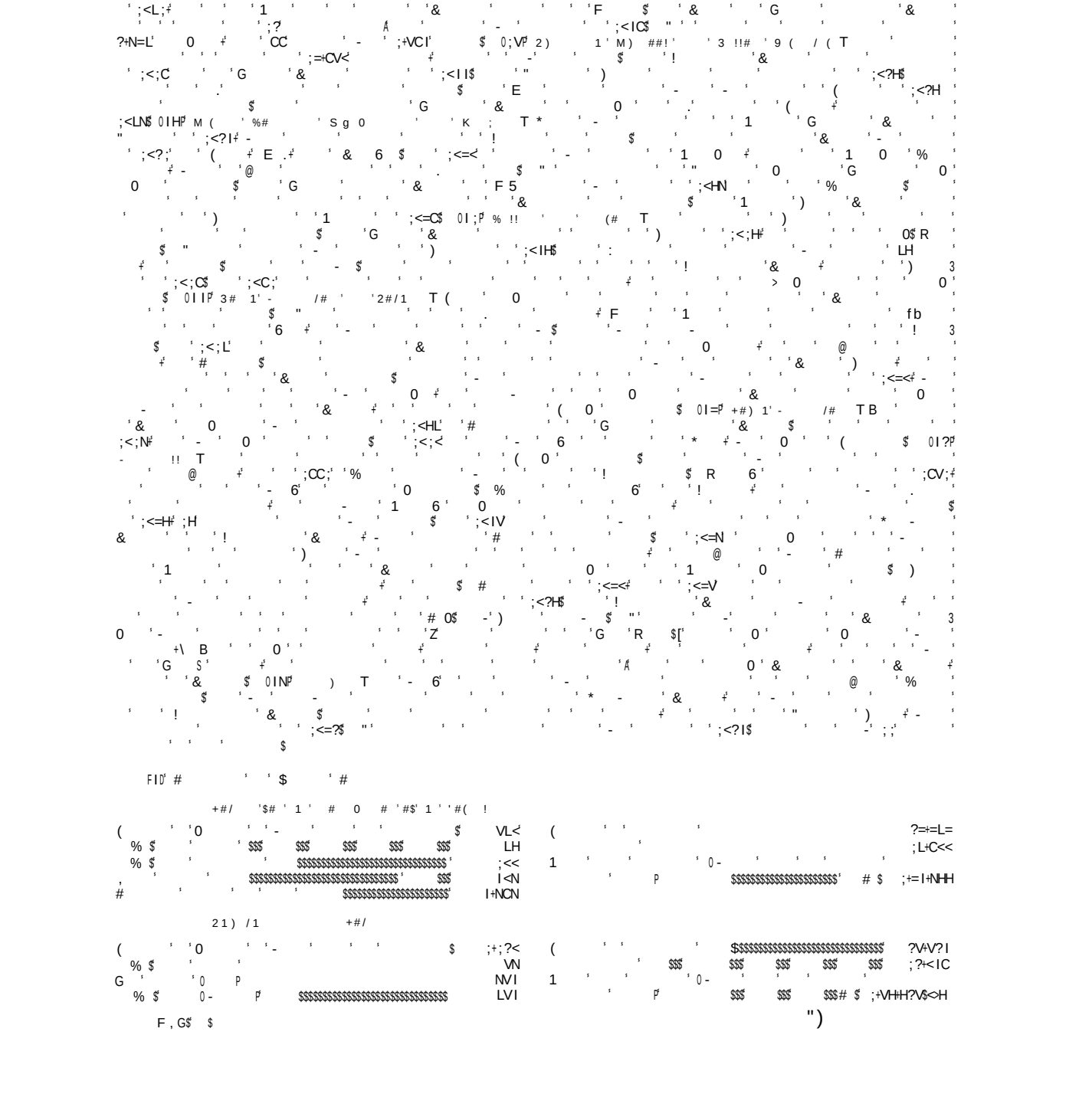

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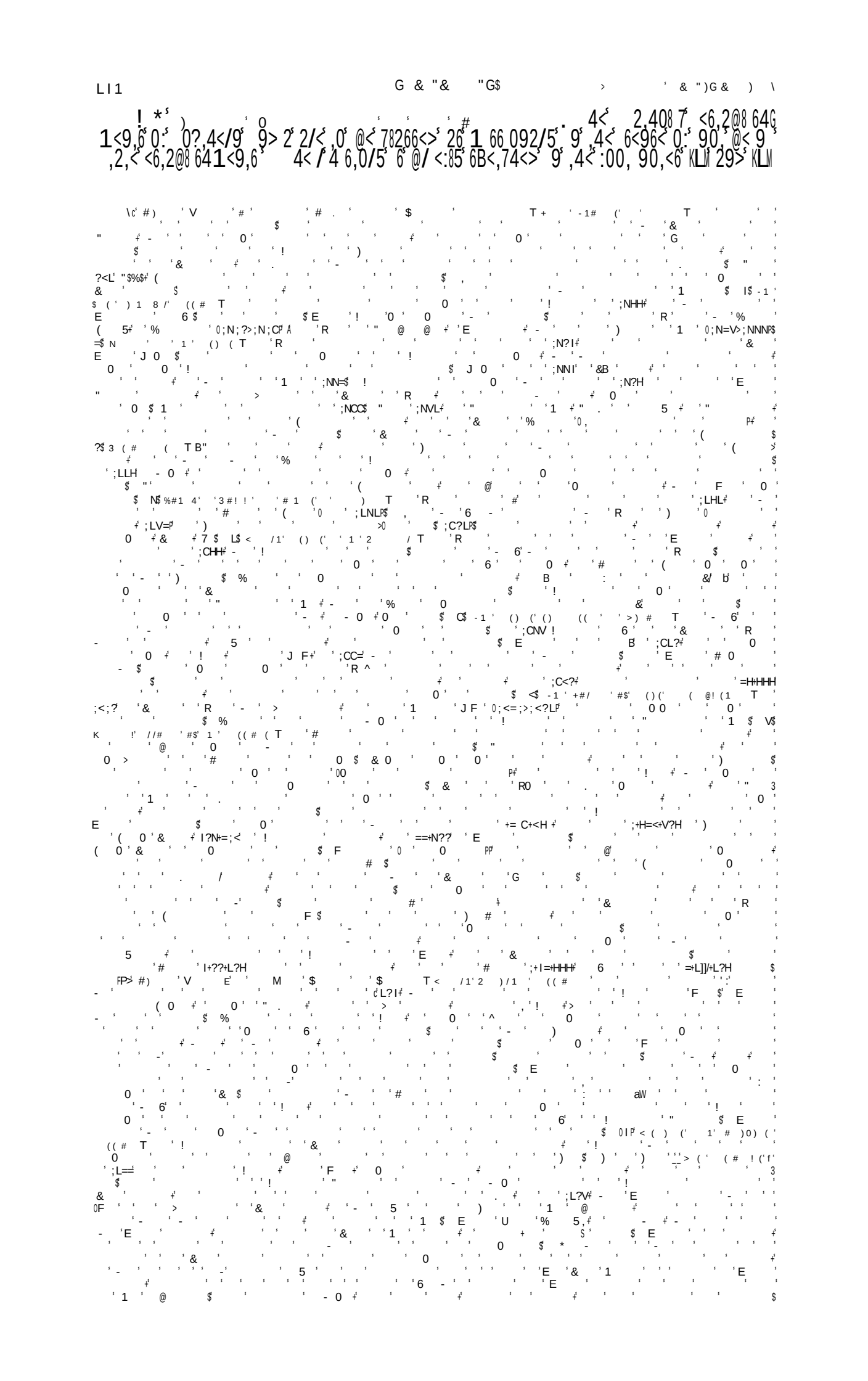

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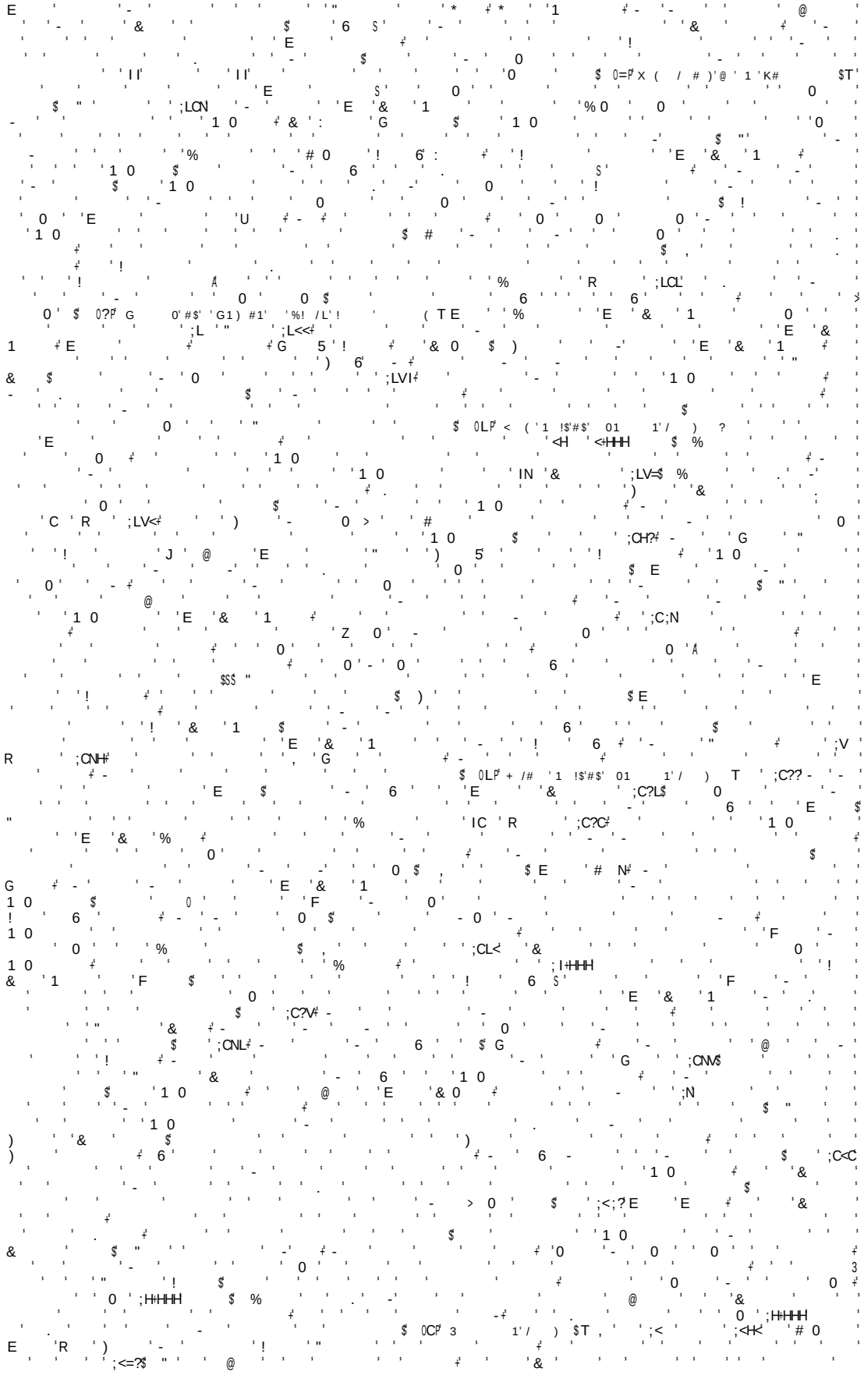

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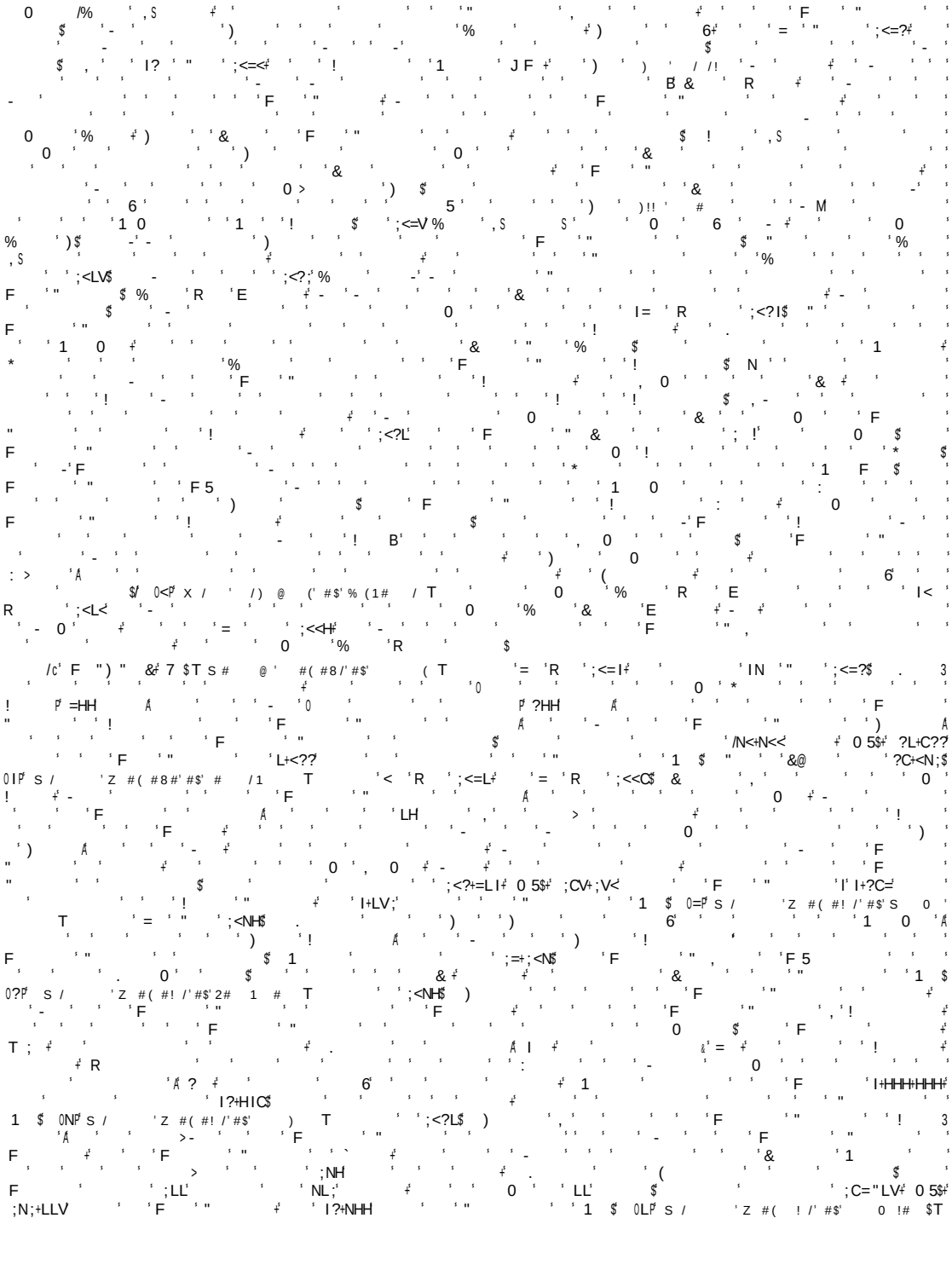

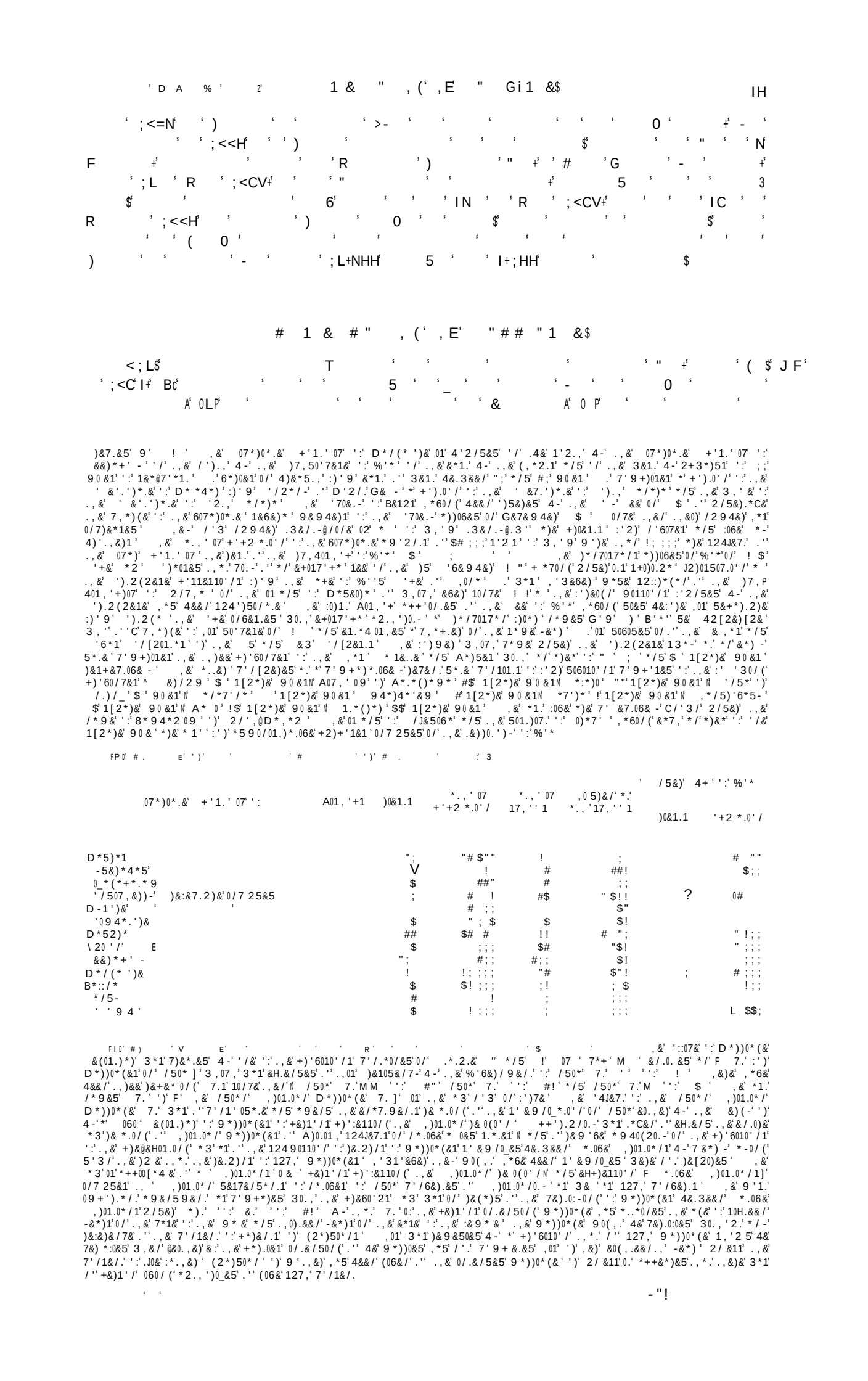

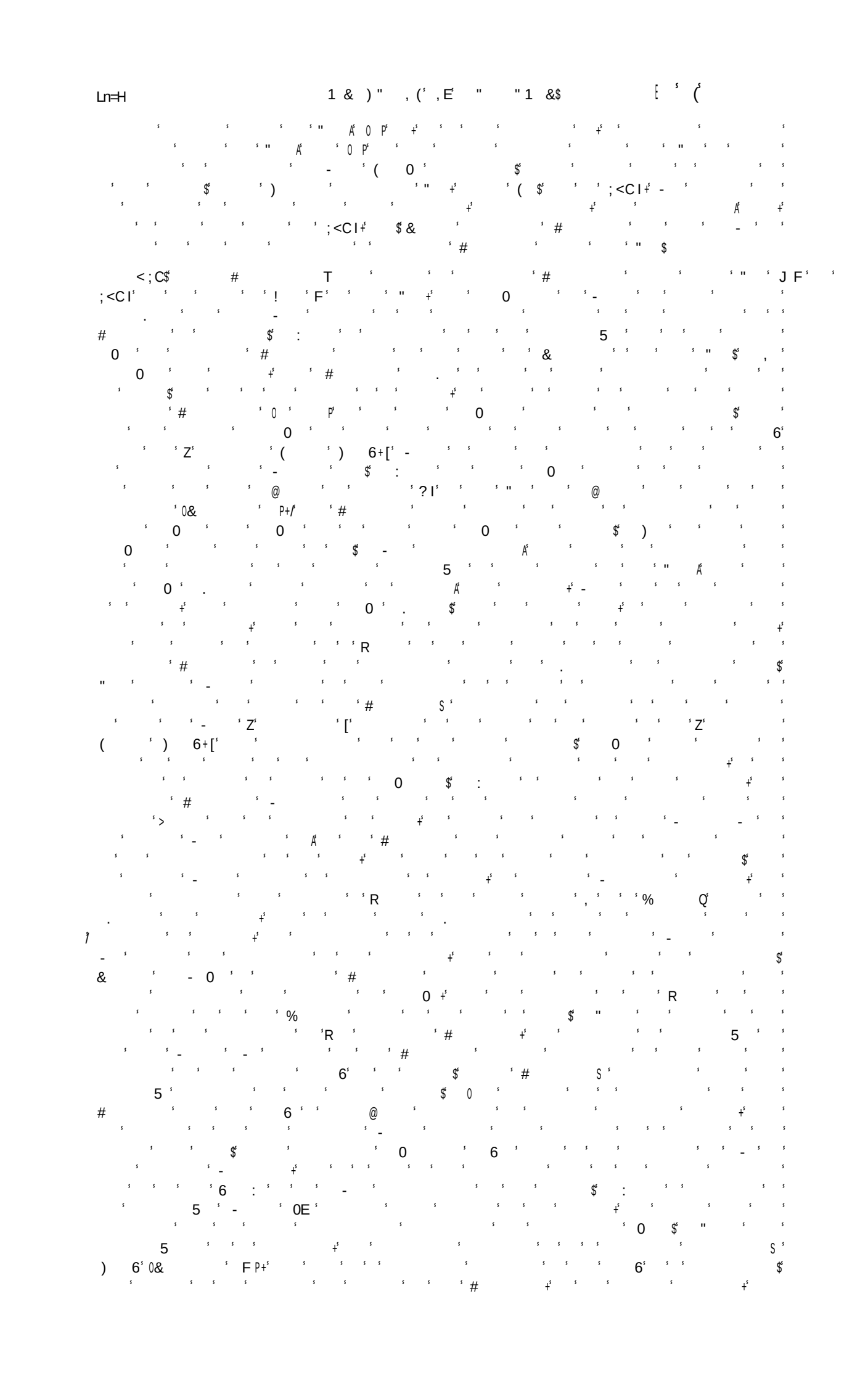

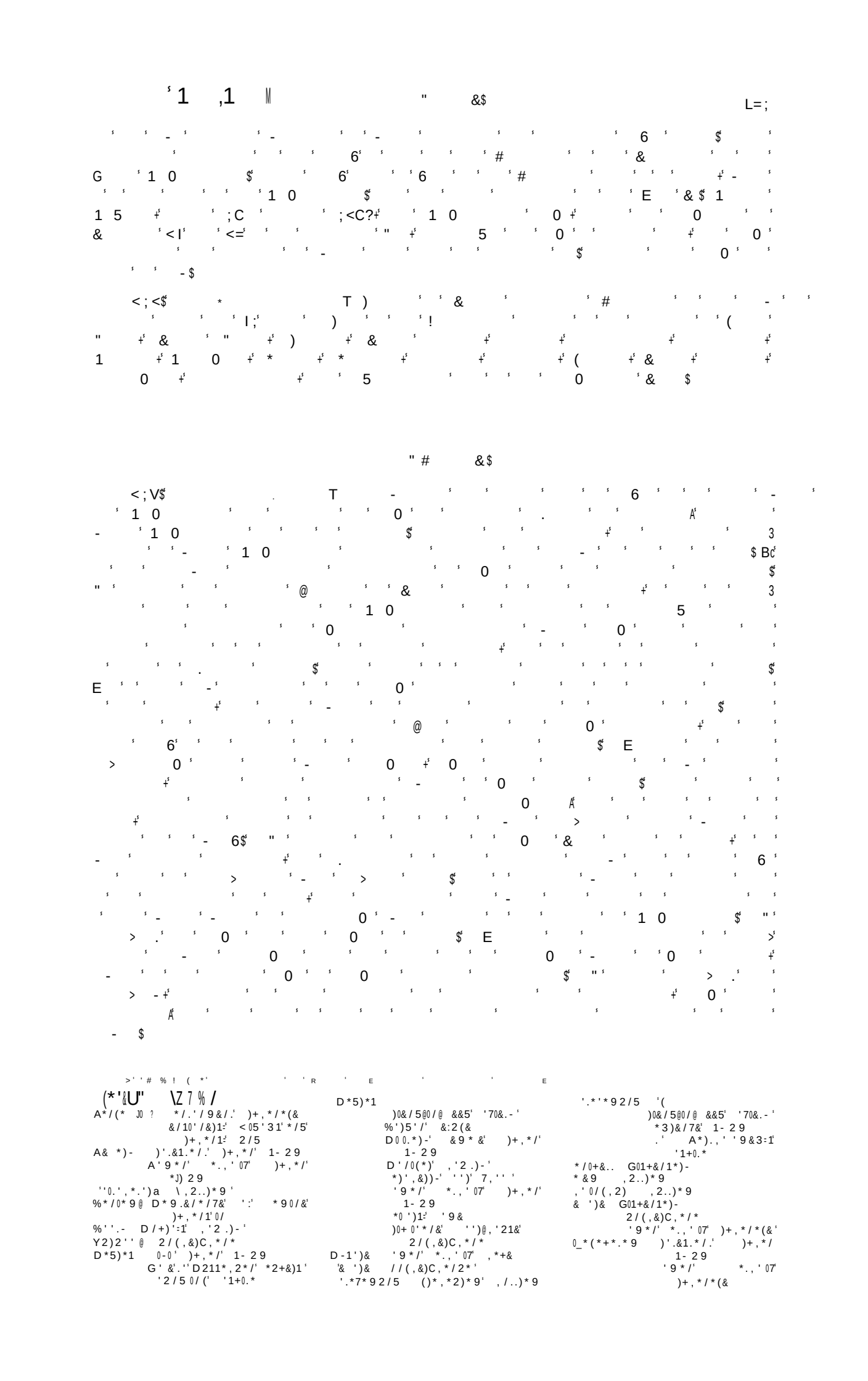

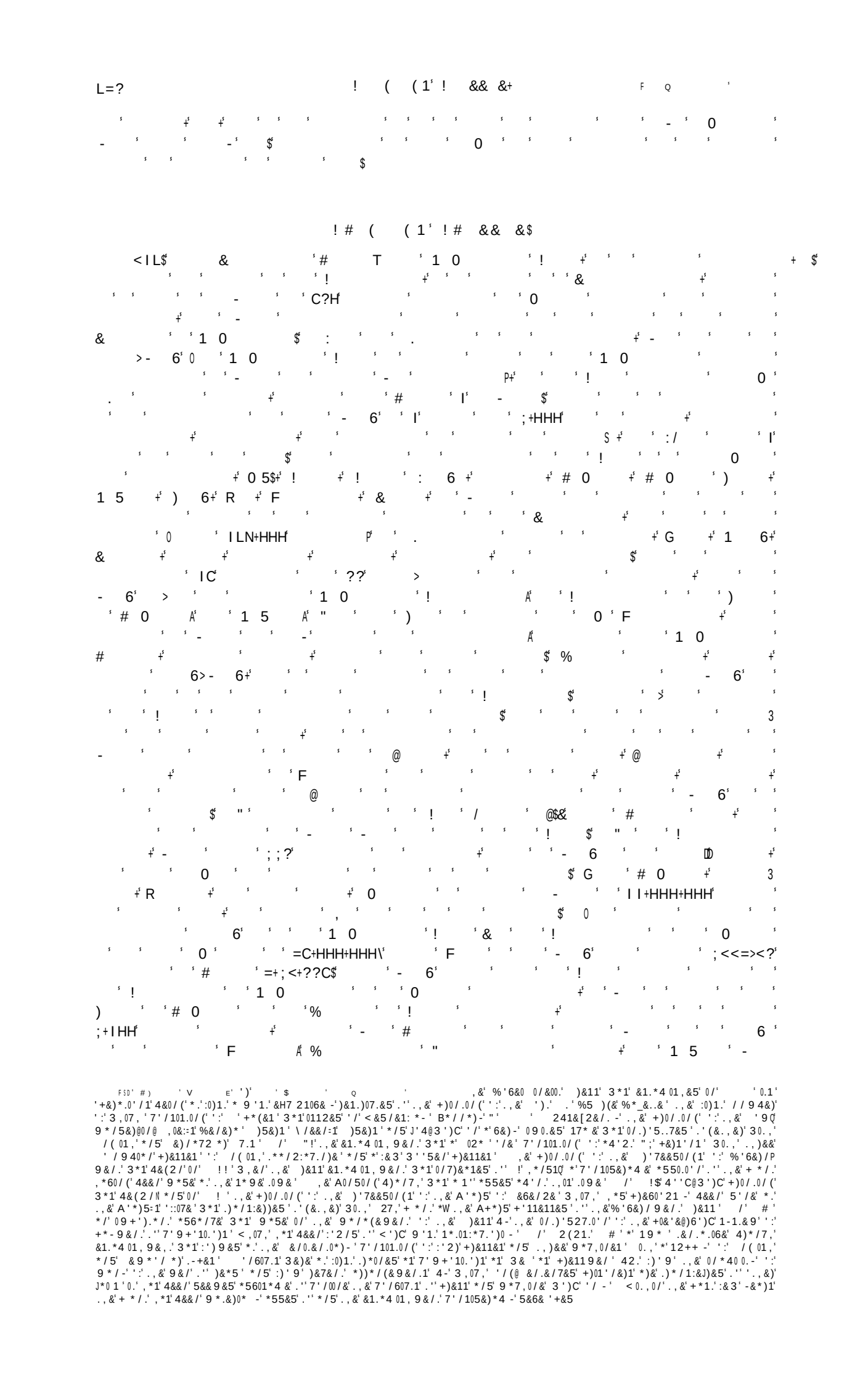

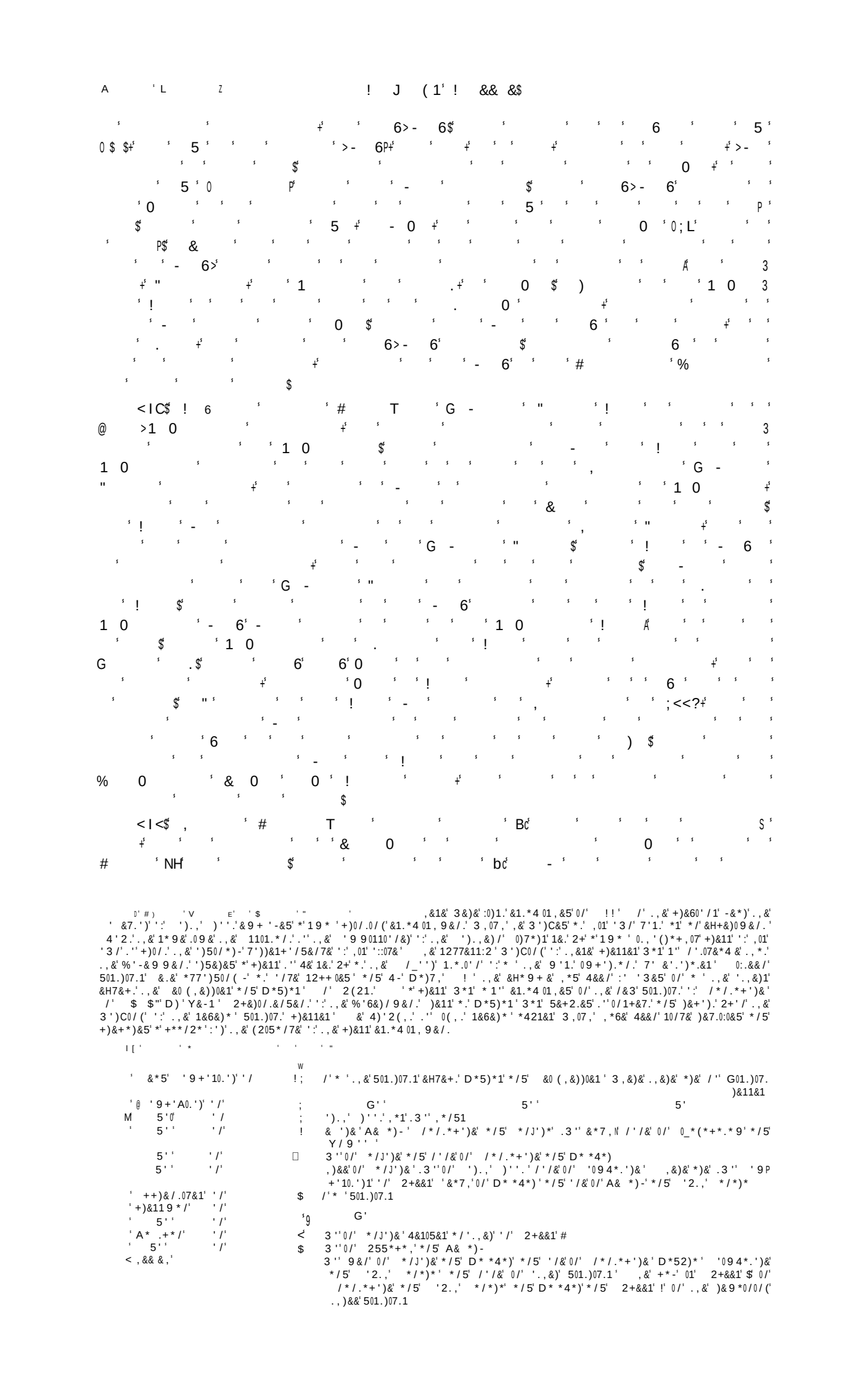

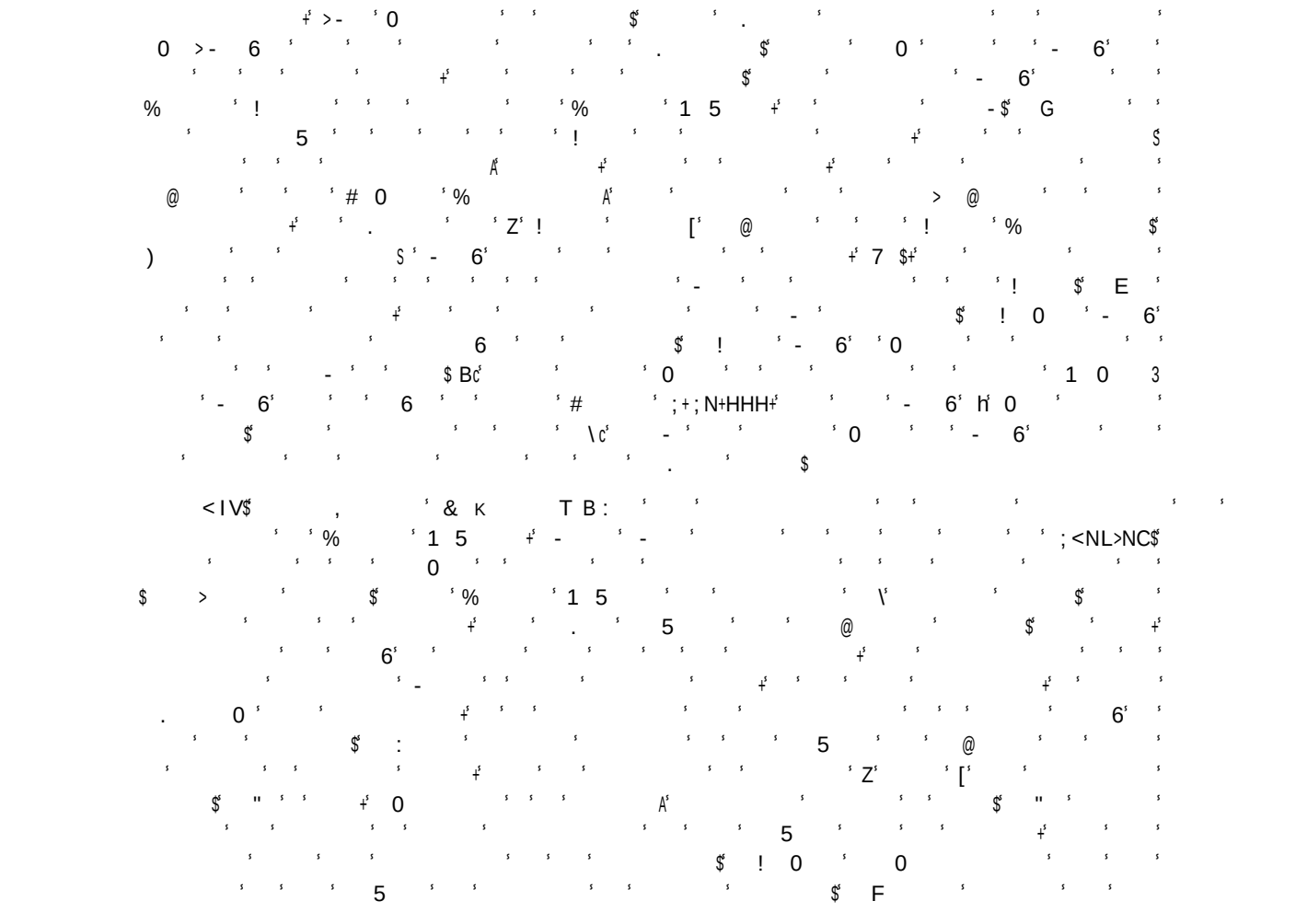

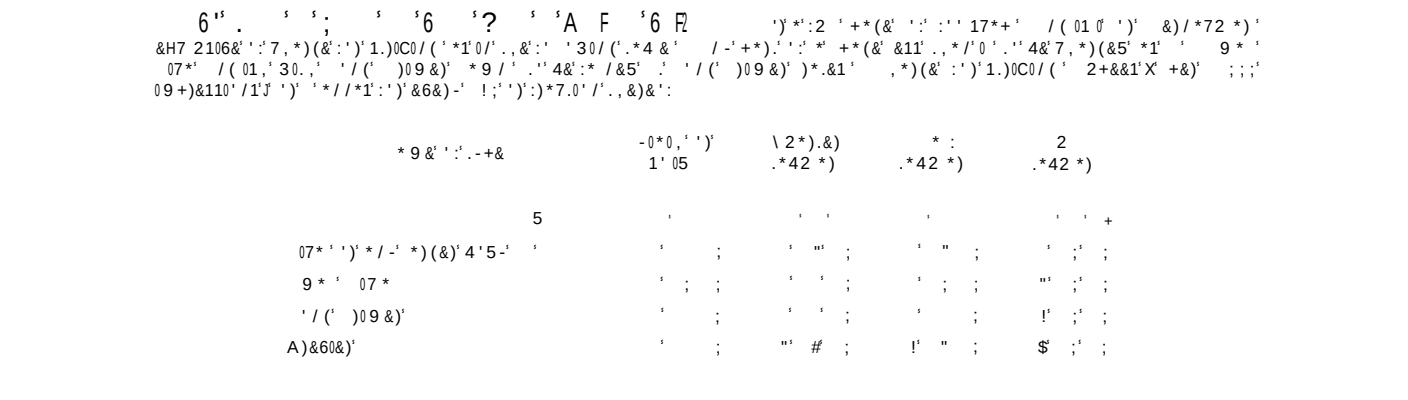

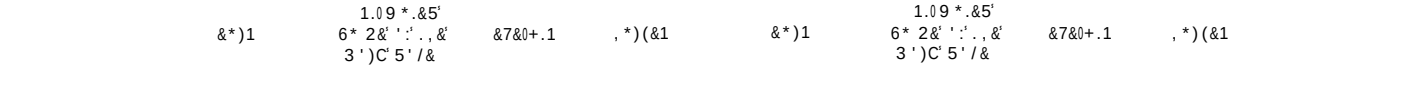

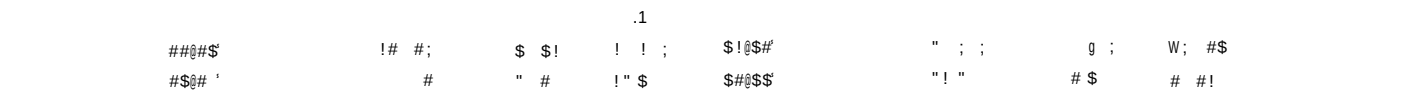

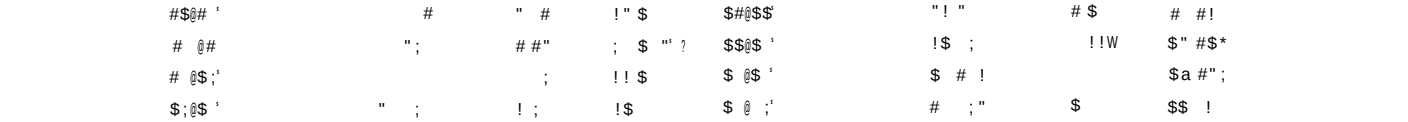

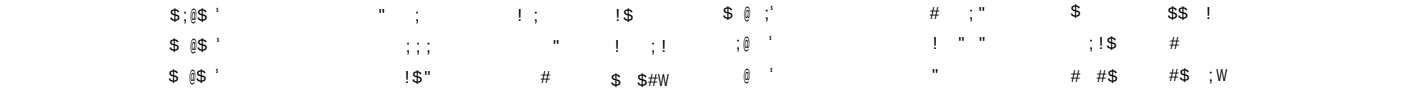

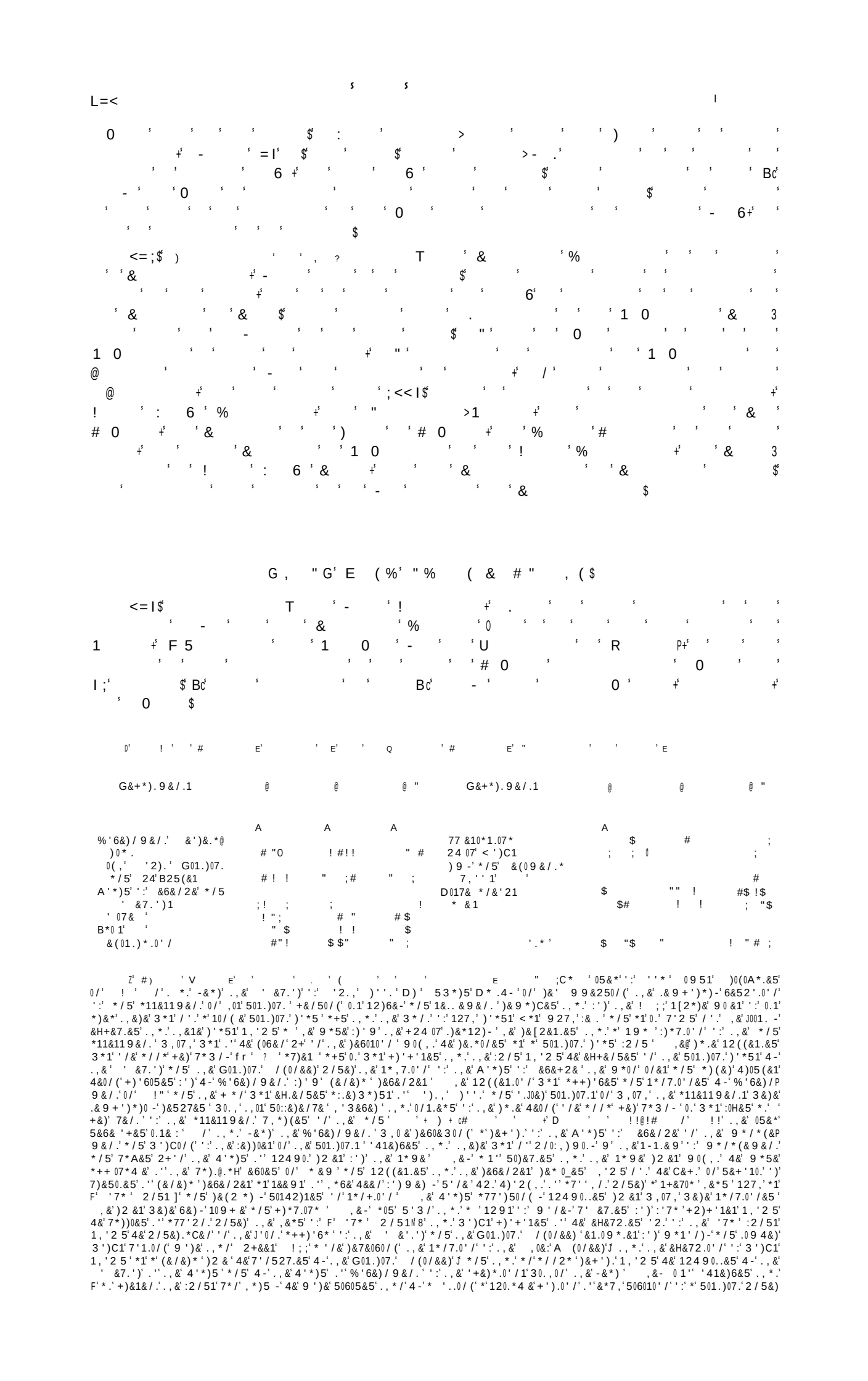

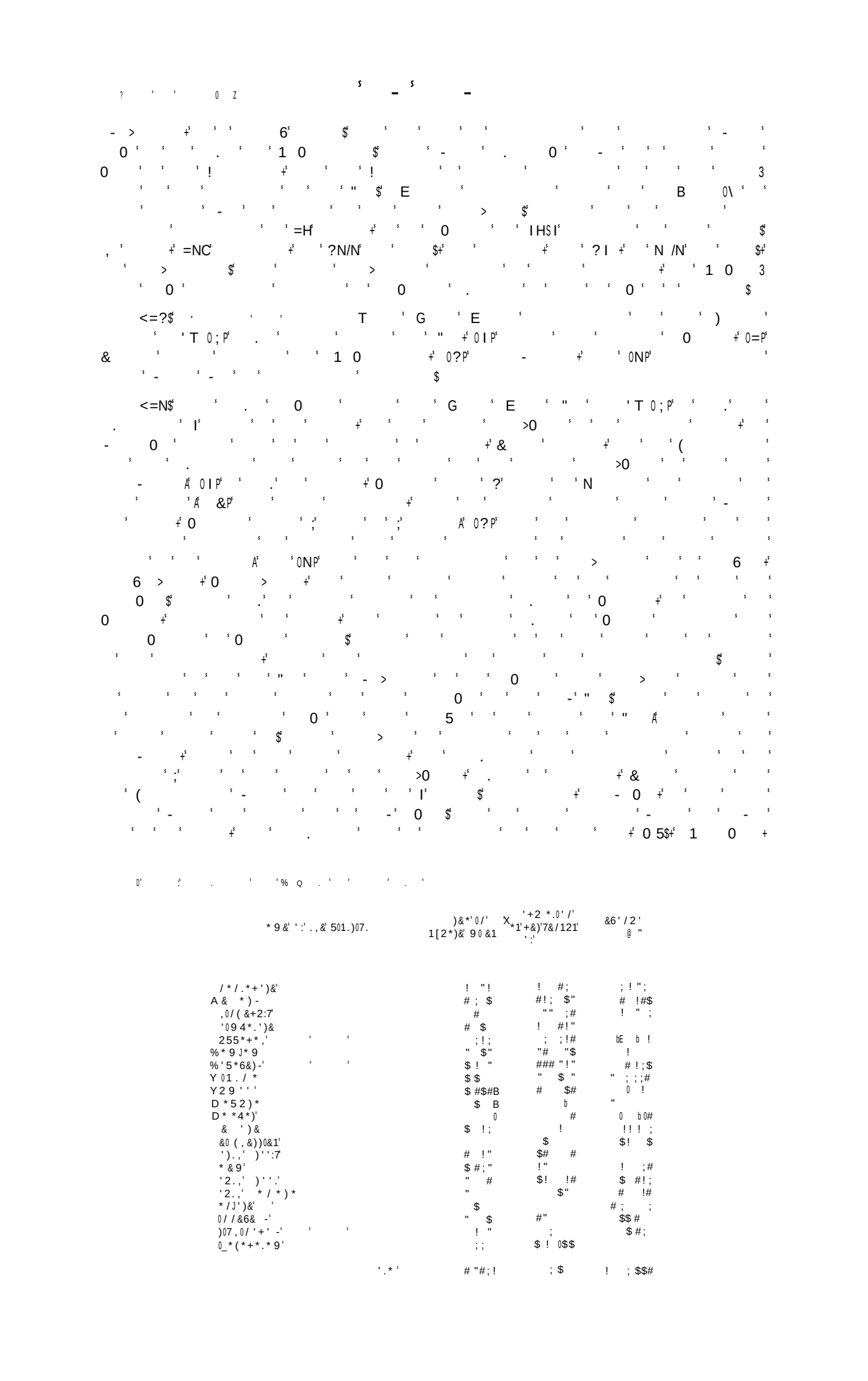

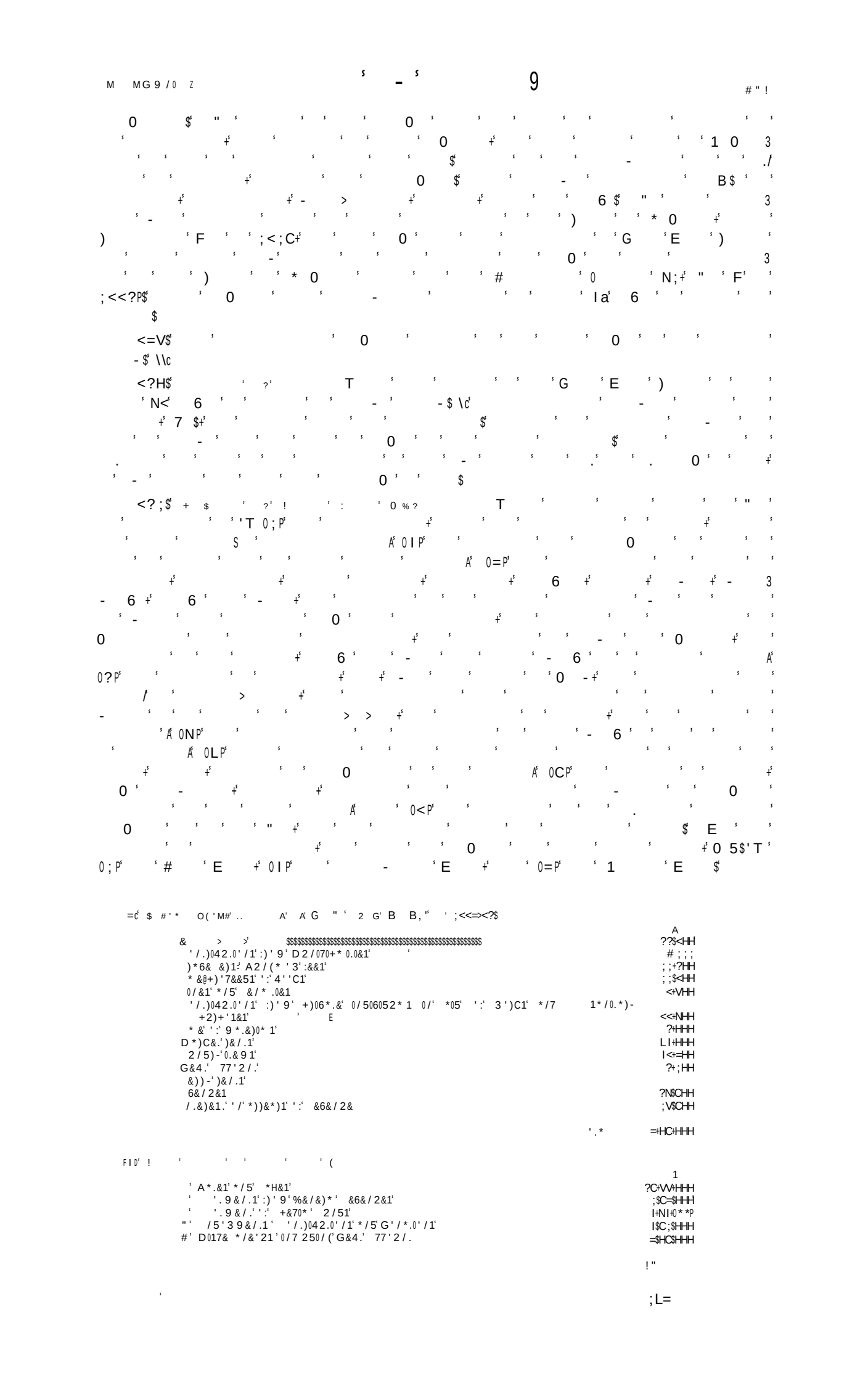

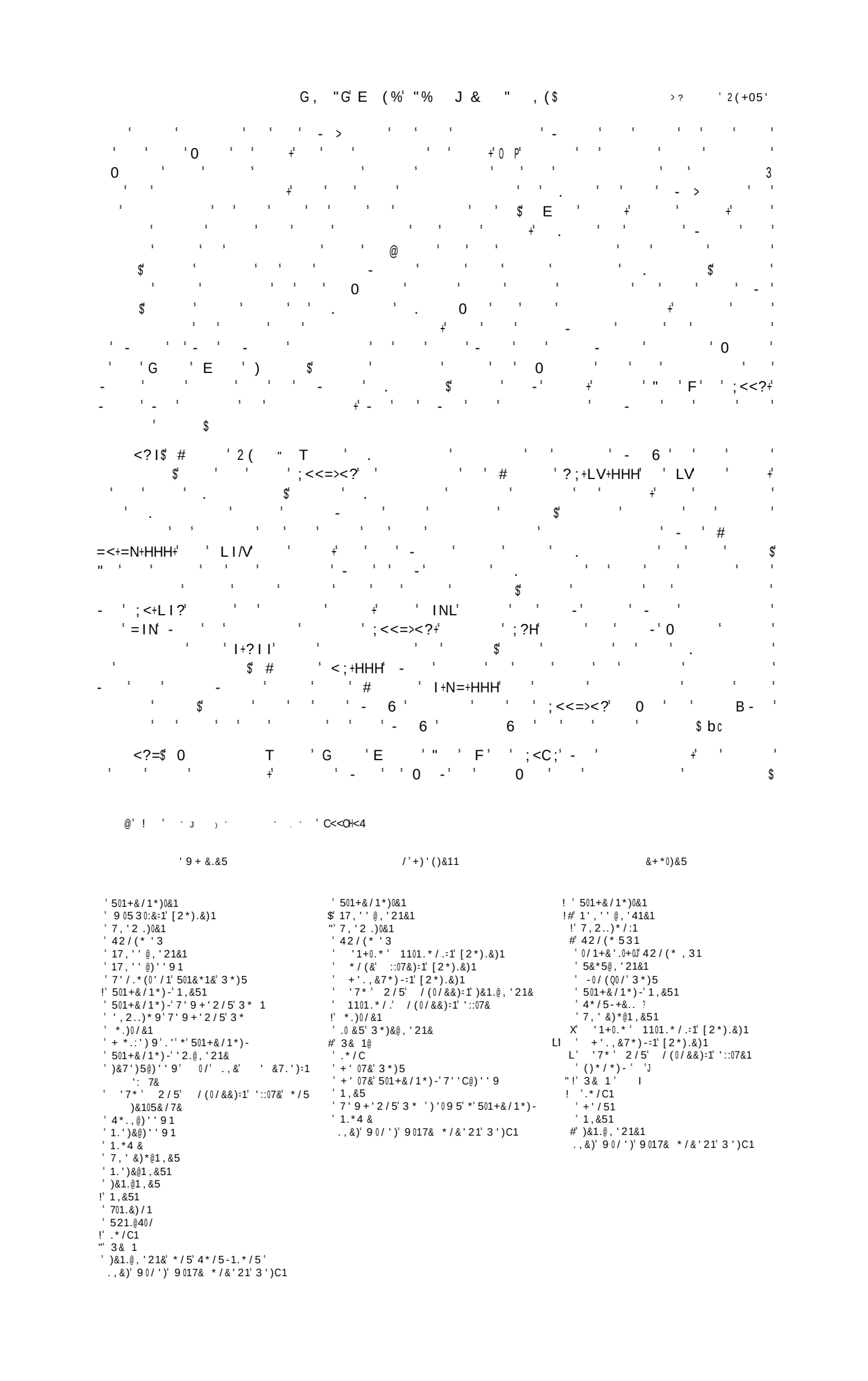

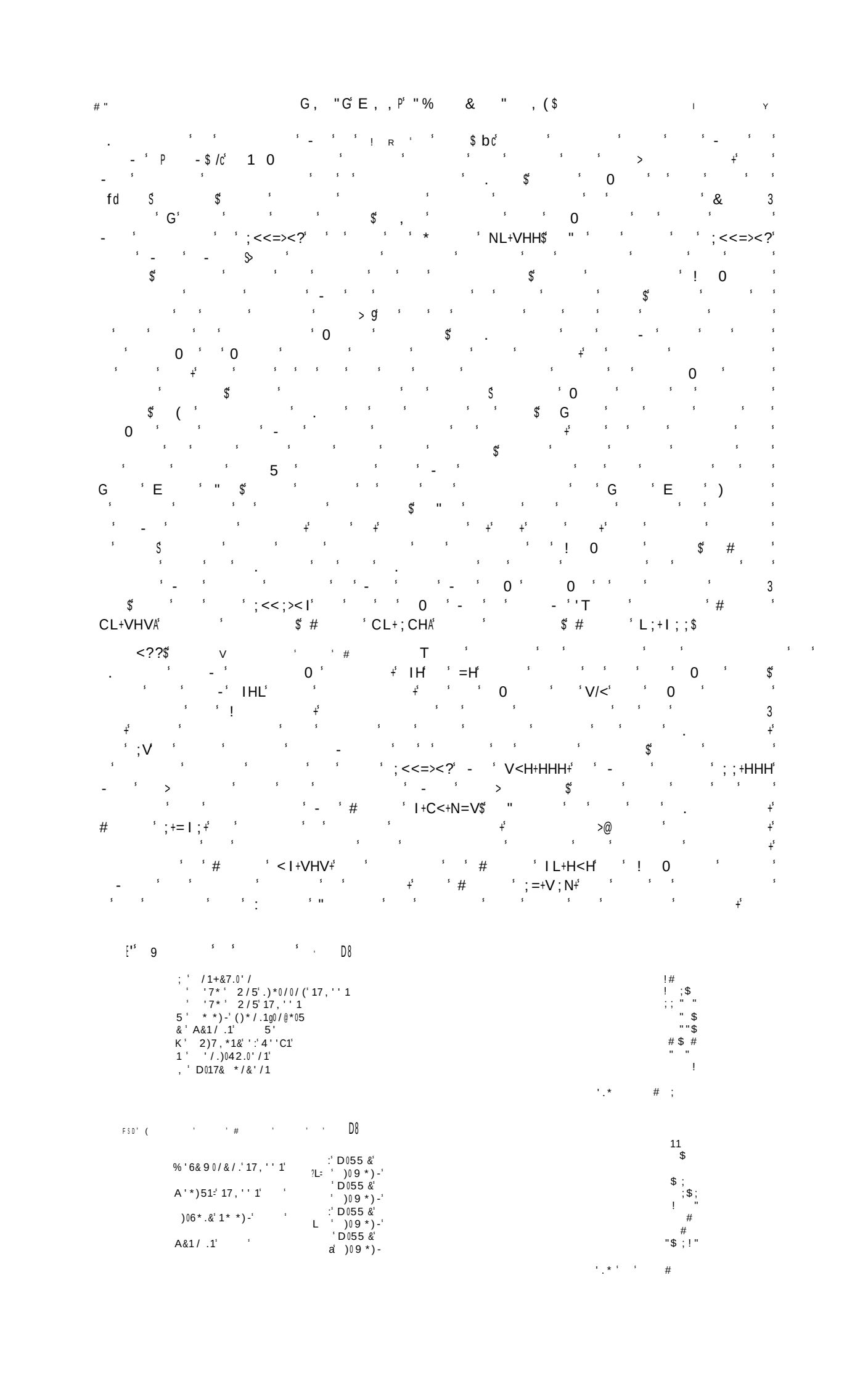

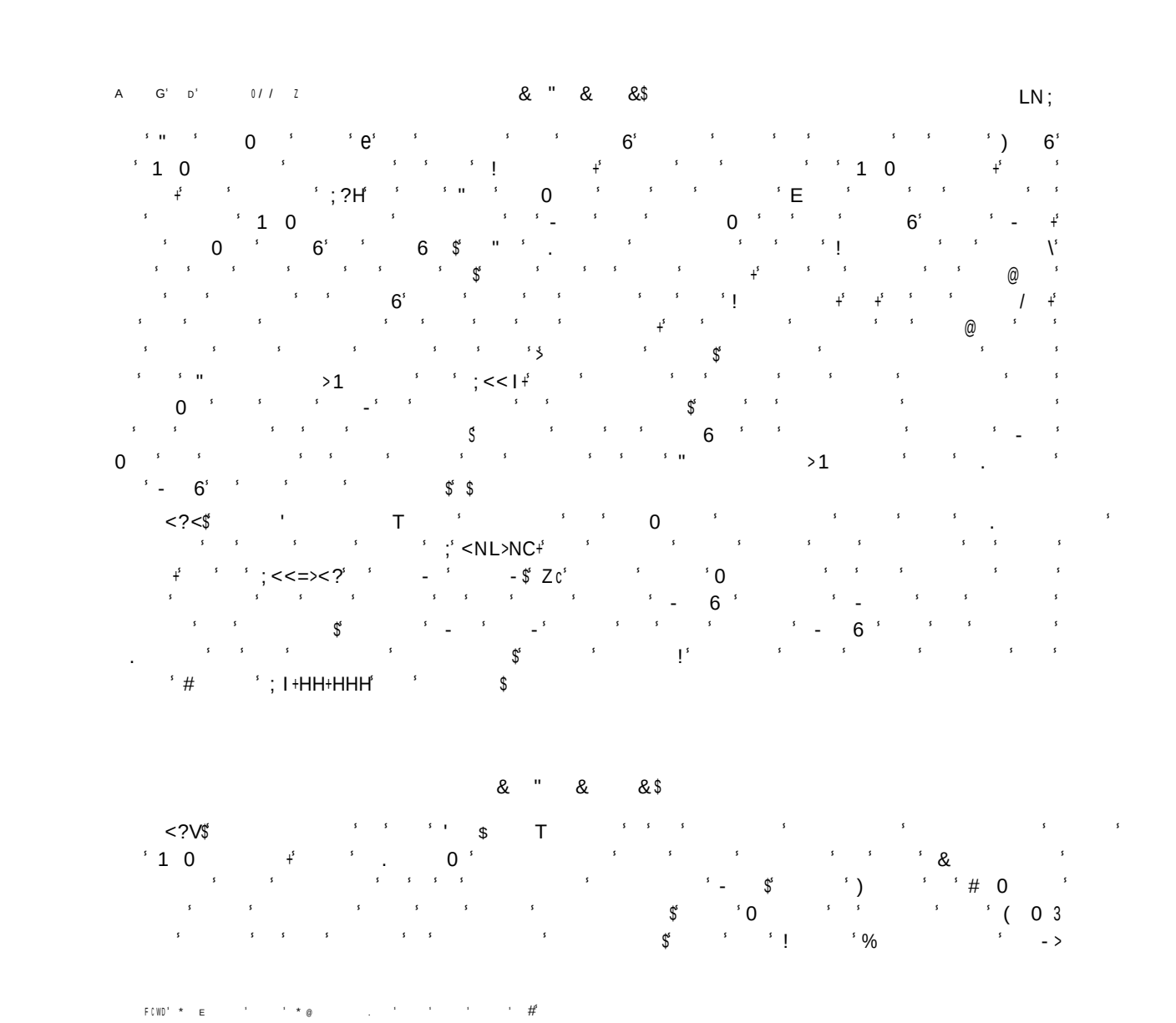

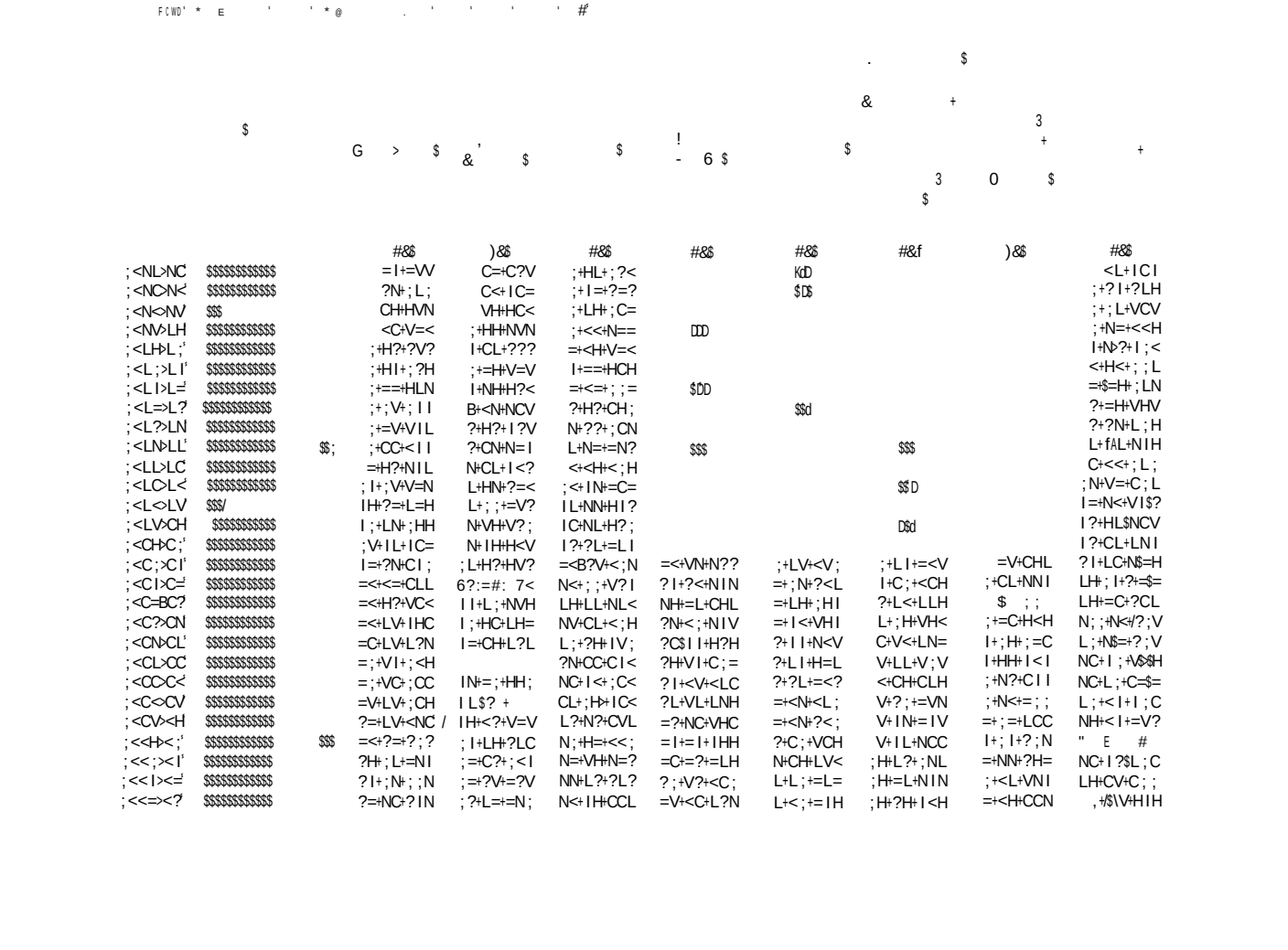

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